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tctcccggac tcctgaggtc acatgcgtgg tggtggacgt aagccacgaa gaccctgagg 180
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1 5

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<223> Synthetic sequence with 4 tandem copies of the GAS binding site found in the IRF1 promoter (Rothman et al., Immunity 1:457-468 (1994)), 18 nucleotides complementary to the SV40 early promoter, and a Xho I restriction site.

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gcgcctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc 60
cccgaaatat ctgccatctc aattag 86

<210> 4
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<223> Synthetic sequence complementary to the SV40 promter; includes a Hind III restriction site.

<400> 4
gcggcaagct ttttgcaaag cctaggc 27

<210> 5
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<223> Synthetic promoter for use in biological assays; includes GAS binding sites found in the IRF1 promoter (Rothman et al., Immunity 1:457-468 (1994)).

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gcccctaact ccgcccagtt ccgcccattc tccgccccat ggctgactaa ttttttttat 180
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<223> Synthetic primer complementary to human genomic EGR-1 promoter sequence (Sakamoto et al., Oncogene 6:867-871 (1991)); includes a Xho I restriction site.

<400> 6
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<223> Synthetic primer complementary to human genomic EGR-1 promoter sequence (Sakamoto et al., Oncogene 6:867-871 (1991)); includes a Hind III restriction site.

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<223> Synthetic primer with 4 tandem copies of the NF-KB binding site (GGGGACTTTCCC), 18 nucleotides complementary to the 5' end of the SV40 early promoter sequence, and a XhoI restriction site.

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ccatctcaat tag 73

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<223> Synthetic promoter for use in biological assays; includes NF-KB binding sites.

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cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga 180
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cttttgcaaa aagctt 256

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<210> 14
<211> 2114
<212> DNA
<213> Homo sapiens

<400> 14
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aaaaaaaaaa aaaa 2114

<210> 15
<211> 2158
<212> DNA
<213> Homo sapiens

<400> 15
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gactgtaatc ccatggagct aagcagtatg tcaggatttg aagaaggttc agagctgaac 180
ggttttgaag gaactgacat gaaagacatg aggctcgaag ctgaagcagt tgtaaatgat 240
gttctctttg ctgttaacaa catgtttgtc tcgaaaagcc tgcggtgtgc ggatgatgtg 300
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gggctcaagg tggtaggcta tgcttttgac caggtagatg atcatttaca gactccctac 420
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<210> 16
<211> 443
<212> DNA
<213> Homo sapiens

<400> 16
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aaaaaaaaaa aaaaaaaaaa aaa 443

<210> 17
<211> 1315
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (38)
<223> n equals a,t,g, or c

<400> 17
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cctgagcagg ggcttggggc agcccagcct ctcctccacc cagaccaagt gcctgaggag 240
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tctcaggcta aaatgtgtgg acttgtacga gctcttgtca ttgacatggc aagctgatgg 420
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<210> 18
<211> 1174
<212> DNA
<213> Homo sapiens

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aatgtgggtg atttagctcg agaagtctga tcatcggata tcatggagtc tggcaagacg 180
gcttctccca agagcatgcc gaaagatgca cagatgatgg cacaaatcct gaaggatatg 240
gggattacag aatatgagcc aagagttata aatcagatgt tggagtttgc cttccgatat 300
gtgaccacaa ttctagatga tgcaaaaatt tattcaagcc atgctaagaa agctactgtt 360
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cccccaagag atttttatt agatattgca aggcaaagaa atcaaacccc tttgccattg 480
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agttgtcatt cattcgaaaa aaaaaaaaaa aaaa 1174

<210> 19
<211> 916
<212> DNA
<213> Homo sapiens

<400> 19
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caatttgagt ttcagtattt ttttctccct aggcatgtgc ttcaatttca aatatttttt 120
tctgtgtgga aaatgccatg taactattgc actaccttct gtgtggactg tgttggtatt 180
ggttctttct gtatatcaaa agtcagggtg tttataactg caaagtttgt ataagtggct 240
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caaagagcag cctgttgatc ttttggccaa atgacttgag cataagtctt ttatttcttt 420
ttaaggttaa atcgtaaact gtataccttt actactgaaa acaaaactat agggcatcat 480
actaattgaa aatcaatagt aatgggttcc atccattagc tttttaaatg aatagatctg 540
gtattgattt ccttcctgtt tttttgaggc acattccttt acaaccagtg tttaaaccac 600
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caaagcaagt gatgaggttg gtatgacttc tttagtgacc ttttagggtt tgcttttatt 840
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<210> 20
<211> 1228
<212> DNA
<213> Homo sapiens

<400> 20
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<210> 21
<211> 1960
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (13)
<223> n equals a,t,g, or c

10/540,269

<220>
<221> SITE
<222> (23)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (25)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (26)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (37)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1094)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1952)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1956)
<223> n equals a,t,g, or c

<400> 21
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<210> 22
<211> 1425
<212> DNA
<213> Homo sapiens

<400> 22
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gagccactgt ggccagccta acttatcatt ttcttaaatg tgacttaaat gcagttgaaa 180
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<210> 23
<211> 951
<212> DNA
<213> Homo sapiens

<400> 23
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ccccccatg ttttattaaa gggggtgctg gtggtgagcc gtgtgtgcgt gtccctgctc 240
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<210> 24
<211> 229
<212> DNA
<213> Homo sapiens

<400> 24
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cctgattatt tcagtttggc taaaacagag ctggcatcaa ggaagggttt gttgtgatga 180
ttccagagag ggtgactctc agggagttgc ccaccaggcc cacgaagcc 229

<210> 25
<211> 508
<212> DNA
<213> Homo sapiens

<400> 25
ggcttgccac caacgtgttc atcctgagac tgtgcatgat taaggttatt ctccctctct 60
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agaggtcggg tgtgaaagga aaggaccttc gggcgggaac caataccaag ctaccctcct 240
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tgtcctgccg tttctgcttc tgtttttcct tttttctttt ttttttttt aacagccaat 360
tcttttgaag ggagatagcc agccaatttt ccatttctcc ttgcctacgg agctcatgca 420
aacttcccta cgctagccgg ctggccctgt gcaaccttca ctaccacctc ccgccaaccc 480
cctcctctac tccttcctcc ctaagccg 508

<210> 26
<211> 1099
<212> DNA
<213> Homo sapiens

<400> 26
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<210> 27
<211> 990
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (948)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (954)
<223> n equals a,t,g, or c

<400> 27
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<210> 28
<211> 3152
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (361)
<223> n equals a,t,g, or c

<400> 28
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cagacagcaa ggtttcgata ggaacatgct gggaacctta gctggggcca acagcctcag 120
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aatcaataaa ttgctagtgt ttctttgaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 3120
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<210> 29
<211> 1402
<212> DNA
<213> Homo sapiens

<400> 29
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gttgagcccg gcgtccccga agcgcaggcg atgtgcgcca ttgtcggcgc ccacctcggc 180
cgctgcctcc ccgttgtcgg cggccgcggc caccgccgcc tccttctccg ctgcggccgc 240
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agaacaatat gatgcgtttg tgaagtttac gcatgatcaa ataatgcgac gatatggaga 660
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aaaaaaaaaa aaaaaaaaaa aa 1402

<210> 30
<211> 841
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (23)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (45)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (69)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (84)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (762)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (767)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (782)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (789)
<223> n equals a,t,g, or c

<400> 30
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aattacctnc ctaagggaac aaangtggag ttcaccgggt tgcggccggt tttaaactag 120
tggacccccg gggctgcagg aattcggcac gagatcctga cccaagctca ggcacaccca 180
aggcacctgc ctctctgagt cttgggtctc agttcctaat atcccgctcc ttgctgagac 240
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aataatattc tttatggcag taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaact 720

cgaggggggg cccggtaccc aatkcgccct rkagkgmktc gnattanaat tcactggccg 780
tngttttana aattcgtgaa tggggaaaac cctggggtta cccaacttaa acgccttgca 840
g 841

<210> 31
<211> 966
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (130)
<223> n equals a,t,g, or c

<400> 31
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acaaatattt ttctccaacc tcgttttctt tttctttttt tgccatggga gtatttttta 120
tattacgtan tttaacctct cagtgctttc tttcatggtt tctggggttt gtatccgcag 180
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tcgaag 966

<210> 32
<211> 1005
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (883)
<223> n equals a,t,g, or c

<400> 32
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tcttctctgg gctgctaatg ccttccttcc ccttattagt aatattactg ataaacaaat 120
tgtacattct ctgatctcay ttcagaggct gtttctgtgc actgaagatg tacacacagt 180
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cagagacttg gagcctcagg ttcattcaat ggtgtcccag ggaacggggt tggagggctt 360
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gtattgctca gataaatatg taagctattt tactggcaca ctgtatctag tgatattaac 540
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<210> 33
<211> 464
<212> DNA
<213> Homo sapiens

<400> 33
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gaccctgggc tgccagatgc aggaagcatc aaacccccca gcctcgtggg tgcggggcag 180
ggcgcaggca gcacagctta gatgccctgg tttgtccctc ttgtctcctg ggaagagctt 240
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ttagtcgctt ctcacggtgg cctgatggct caacccagtc ccaaacgggc ccagtgacac 360
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taaaagtgat ttctttttc attaaaaaaa aaaaaaaaaa aaaa 464

<210> 34
<211> 839
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (823)
<223> n equals a,t,g, or c

<400> 34
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<211> 1102
<212> DNA
<213> Homo sapiens

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<211> 1112
<212> DNA
<213> Homo sapiens

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<211> 2531
<212> DNA
<213> Homo sapiens

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<211> 954
<212> DNA
<213> Homo sapiens

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<210> 39
<211> 3342
<212> DNA
<213> Homo sapiens

<400> 39
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<210> 40
<211> 620
<212> DNA
<213> Homo sapiens

<400> 40
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<210> 41
<211> 830
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (814)
<223> n equals a,t,g, or c

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<210> 42
<211> 4054
<212> DNA
<213> Homo sapiens

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<210> 43
<211> 452
<212> DNA
<213> Homo sapiens

<400> 43
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tcaacacttg gaggggttgt agttatttct cctcaaagat ggcaaacatg agtgccccga 120
gttatccctc ctctctgttc aagttcgcta actaatcacc cagtatccat gctatcgctg 180
gcccttctgt ggcctatttt tatactgttc actgttcagt gtcacttgtt tggtaacact 240
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agcctgcttt gtactgagcc agctgccact agatgttttt tgtgataatg aacacgtgag 360
gccatgtgga cgcgagagat ggctccgggt tccctcagac ggctcacagc cagctggtct 420
gcagtgcggy tttagayycc gatgtgggaa cc 452

<210> 44
<211> 625

<212> DNA
<213> Homo sapiens

<400> 44
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tcaacacttg gaggggttgt agttatttct cctcaaagat ggcaaacatg agtgccccga 120
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aaaaaaaaaa aaaaagggcg gccgc 625

<210> 45
<211> 1193
<212> DNA
<213> Homo sapiens

<400> 45
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ctatacatat tgtatatttt aagaattctt tatacaattt taatatactg caatactgca 180
gtttttgaca atttggattc catttggtat atgaattttt gcattcatta ttgaataact 240
cttttaatat ttttgagcaa tgattatact gctttacctt gtgtcacttt tttttttttt 300
aggaaaaact catgttccag tatatttctc ttacagagtg aagtcattac agcactgtat 360
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<210> 46
<211> 1594
<212> DNA
<213> Homo sapiens

<400> 46
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atgagtccca gatgaattgg ccaagtccta gaaatagagg ggctgcagag cggrgaggaa 180
gaggtcccaa tgaccagccc ttgactgcca ccgtttgtca ctggcccccc ggccctgttc 240
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tacttatcct gagaaaccct tgcacggcct gtcccgcaga gaaaagacag cccttccggg 540
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ccaaagatag cagctaaagg aggacttaga tgaatagagg agggaggagg cttgcaggac 1440
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agattattta aaacaacaaa aaaagggcgg ccgc 1594

<210> 47
<211> 1762
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (41)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1748)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1752)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1756)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1760)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1762)
<223> n equals a,t,g, or c

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acgcggtccc ggttaaaaat tatttttgc catatgtaat tttgtgttgc aggctgtcga 180
gagataaaaa tgattttaaa tctgtgtact gatgattctt tcggtgttaa gaaacacagg 240

gttgtgtact tccctttta tgggcttatg gattctattt atattaagac ctgtttataa 300
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ttgttaggat ttgaaattat ttgtagttaa attgtcatgc tgtttgaaat aattgatact 660
tgtctacgta atacatttta ctgtatgttt tgaagatggt tataatttca ctttcaaaat 720
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tagaggancc angctnacgn an 1762

<210> 48
<211> 1042
<212> DNA
<213> Homo sapiens

<400> 48
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gtcttgcact caaatgacaa acgtacaagg cttacaccgt gtgtcagatg gcaatggtga 240
agcagcatca gggagttggg gaggagaggt ggactgcttt ttttattgga gggaggtcaa 300
gaaggatgcc tgaataaggt aacatttgag cagagtccta aagacagtga ggggacaatc 360
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ttcagaggtg gcttagctgc agatggctgg cttcccacat ccgatgactg accacagtag 660
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tccaaggctc ctgcgggact gatggaggct gttcatggga ctgtatccct ccctggcttc 780
tccctctgcc cagttctcat gcctttcctt cctttccact ggtattgatc ccaagggtac 840
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tctaaaaaaa aaaaaaaaaa aa 1042

<210> 49
<211> 855
<212> DNA
<213> Homo sapiens

<400> 49
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catcaaaata taagtttcca ggctttgcag aagaccttgt ctccttagaa atgccccaga 120
aattttccac accctcctcg gtatccatgg agagcctggg gccagatatc tggctcatct 180

ctggcattgc ttcctctcct tccttcctgc atgtgttggt ggtggttgtg gtgggggaat 240
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aggagggagg caggcatagc atctgaaccc agtgtggggg cattcactag aatcttcaat 480
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acccaggttc caaccccatt gtcagcaccc cagccatgcg gccacccctt agcacacctg 660
ctcgtcccat ttagcttacc ctcccagttg gccagaatct gaggggagag cccccagaga 720
gccccttccc ccatcagaag actgttgact gctttgcatt ttgggctctt ctatatattt 780
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aaaaaacctc gtgcc 855

<210> 50
<211> 1120
<212> DNA
<213> Homo sapiens

<400> 50
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gacttgttaa aagaaaatgt gaatttaaaa gatgttaaat tttaattaag gttgttttta 120
attgttttga agcaacatag tcttcattaa taataaaatt gctggacaga atgattttta 180
aaagacagcc tatcagtttt aatgaagtat ctagttttta aaatgggtgc gttagtagag 240
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aaataatagt gaacaaaact gatctagaag aaaagatgga aggacataaa acactaggaa 360
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<210> 51
<211> 1278
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (20)
<223> n equals a,t,g, or c

<400> 51
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ttgcacgttg cgccgggtgt gtctgtgcgt gccagctgca tctttgcgtr ccatgtgtgc 120
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cagaggcaaa ggaacaaaca tgtgatttct cccagatgag gtttctggag gaggcagatc 420
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accactgcac tctagcctgg gcgatacagc aagaccctat ctcaaaaaaa aaaaaaaaaa 1260
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<210> 52
<211> 742
<212> DNA
<213> Homo sapiens

<400> 52
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cctggaacat gctgcttcca cagggcaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 720
aaaaaaaaaa aaaaaaaaaa aa 742

<210> 53
<211> 1033
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (928)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (958)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (977)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1005)
<223> n equals a,t,g, or c

<400> 53
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tgagatggaa atcatataca cagagttaca aattcctgaa atgttccatc tatatttgat 180

ataaacagac atacagtagc tgagaaagta acacagcttg actattgctc tgtttacctt 240
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acccttttt tgc 1033

<210> 54
<211> 1913
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (12)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (14)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (398)
<223> n equals a,t,g, or c

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taaaatttga ataaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaactc gag 1913

<210> 55
<211> 1992
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1950)
<223> n equals a,t,g, or c

<400> 55
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atgagtggtc attgaagata agaaaggaaa tgagagttgt tgacaggcaa ataagggata 240
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aaggatgtct gcatagttct ggccaaggag atgatcaggt caaggaaggc tgtgagcaag 360
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ttccatggcc ct 1992

<210> 56
<211> 1386
<212> DNA
<213> Homo sapiens

<400> 56

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cggctggcca cactccgcag ctaggggctg cctaccccgc tgggtgtgca cacactcctc 240
tcaagagctg ccattttatg tgtctctttgc actacacctc tgttgtgagg actaccattt 300
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<210> 57
<211> 1733
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (893)
<223> n equals a,t,g, or c

<400> 57
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gaattgggat gacaaatcca aatctataga gtatttgcct cttaaatgat acctcattga 480
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tttaacccta gtaggtttcg cagattcatc cccagatatg tttttgtttg gcttgtgtta 1680
ttaacaaata aatgagtgtc tttcaaatgg aaaaaaaaaa aaaaaaaaaa aaa 1733

<210> 58
<211> 2722
<212> DNA
<213> Homo sapiens

<400> 58
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aaaaaaaaaa aaaaaactcg ta 2722

<210> 59
<211> 1094
<212> DNA

<213> Homo sapiens

<220>
<221> SITE
<222> (470)
<223> n equals a,t,g, or c

<400> 59
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taggcacatt tcttgttgtt gttgttgttg cagttcccct ttgcattgta ttgctttgac 1020
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aaaaaaaaaa aaaa 1094

<210> 60
<211> 1839
<212> DNA
<213> Homo sapiens

<400> 60
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<210> 61
<211> 1964
<212> DNA
<213> Homo sapiens

<400> 61
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tcatttgagc acctttaatg tgaattatta tgtgttcttg ctggacttac actgttacat 240
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gaagttcttt attaaaatta ttggcatttg gagggtagga gggtggtggt ccagtctgca 1860
gatggccaca ccaggaggag gagctattat atccccttct cttccacttc ctgtcacaac 1920
caataaaggc cgtttgtgcc attcataaaa aaaaaaaaaa aaaa 1964

<210> 62
<211> 1330
<212> DNA
<213> Homo sapiens

<400> 62
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ccctgggctt ggagtatgca gaactggttc ttgttacaac tcctcttact agtgggctct 180
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aaaaaaaaaa 1330

<210> 63
<211> 1504
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1120)
<223> n equals a,t,g, or c

<400> 63
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gcaatggcat gatctcagct cactgcaacc tctgcctccc gggttcaagc gattctcctg 600
cctcagcctg ctgggtagct gggattacag gcatctgcca ccacgcccgg ctaattttgt 660
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cgag 1504

<210> 64
<211> 1828
<212> DNA
<213> Homo sapiens

<400> 64
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ttaaaaaaaa aaaaaaaaaa aactcgag 1828

<210> 65
<211> 1280
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (893)
<223> n equals a,t,g, or c

<400> 65
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gtggggcata aaattatgag aacaggaaga ataaattttg ctagtgggtc accagggtta 120
ataatgcatg gtgccacttt tgtttctacc ccttgattcc tggctatgga gggaaaaaaa 180
gtaccattta ttggatgctg attcagagcr tatatatagc cctctggaga actctgccct 240
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catcctatta ggccagcttc tttagcatga taaggaacat agaccagtga attccaggag 360
caatgactca tactgaaatt ytttgctgt gaykgaktct tgatcasaag caatgttgta 420
tggaatatga caatgggtaa agcattccat gagaccatgg atgacaattt tggcagaatt 480
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aaaaaaaaaa aaaaactcga 1280

<210> 66
<211> 1528
<212> DNA
<213> Homo sapiens

<400> 66
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cttcccagca atttctgtta tttaagattg ctatctcatt tctggtgtaa tacttacatg 360
gaagtctttc tctatttggg ggtggtgggg ttctggcaca taggaatttc ttaatggcag 420
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catgttcatt cttttcttcc caggtcgcta ttaaagcatg aagactttct gaaacctgcc 540
ctagagctgg gatattgttt gtgggcaata ttttttattg tctcttgttt aaaaagtgaa 600
cagtgcctag tgaagttagg tgacttttac acctttacg atgactactt ttggtggagt 660
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tcacaaaaaa aaaaaaaaaa aactcgag 1528

<210> 67
<211> 1458
<212> DNA
<213> Homo sapiens

<400> 67
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ggatttgtta gaaacagctt ttggaagagg agcagtgata taggtttatt ttactaatga 180
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<210> 68
<211> 1538
<212> DNA
<213> Homo sapiens

<400> 68
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gataagcaga ggcatcacga tttacttgac cgttttgctg acttacactg tggttctatt 120
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cagagtgaga ctccatctca aaaaaaaaaa aaaaaaaa 1538

<210> 69
<211> 557
<212> DNA
<213> Homo sapiens

<400> 69
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caaagccact tccacatttt caggcattat agcaacaacc ccattcttgg caccaatctt 180
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<213> Homo sapiens

09570823 - 061554

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aaaaaaaa 1568

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<211> 1228
<212> DNA
<213> Homo sapiens

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<210> 72
<211> 1715
<212> DNA
<213> Homo sapiens

Page 2 of 2 - 20050059

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<212> DNA
<213> Homo sapiens

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<212> DNA
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US 6,969,589 B2

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<212> DNA
<213> Homo sapiens

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<211> 1214
<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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<211> 1686
<212> DNA
<213> Homo sapiens

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<210> 80
<211> 1634
<212> DNA
<213> Homo sapiens

<220>
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<222> (311)
<223> n equals a,t,g, or c

<220>
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<210> 81
<211> 2012
<212> DNA
<213> Homo sapiens

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<210> 82
<211> 1322
<212> DNA
<213> Homo sapiens

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aa 1322

<210> 83
<211> 941
<212> DNA
<213> Homo sapiens

<400> 83
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<210> 84
<211> 1874
<212> DNA
<213> Homo sapiens

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<210> 85
<211> 643
<212> DNA
<213> Homo sapiens

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<210> 86
<211> 1669
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1601)
<223> n equals a,t,g, or c

<400> 86
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<210> 87
<211> 948
<212> DNA
<213> Homo sapiens

<400> 87
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<211> 2007
<212> DNA
<213> Homo sapiens

<400> 88
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<210> 89
<211> 1687
<212> DNA
<213> Homo sapiens

<220>
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<222> (380)
<223> n equals a,t,g, or c

<400> 89
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actcgag 1687

<210> 90
<211> 952
<212> DNA
<213> Homo sapiens

<400> 90
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ttttcccacc gattcggtgg ctggtgaagg tgggagatgt gaactccaat taagggactg 180

PCT/US99/29590

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<210> 91
<211> 1410
<212> DNA
<213> Homo sapiens

<400> 91
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<210> 92
<211> 1759
<212> DNA
<213> Homo sapiens

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taaaaaaaaa aaaaaaaaa 1759

<210> 93
<211> 810
<212> DNA
<213> Homo sapiens

<400> 93
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<210> 94
<211> 1675
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (465)
<223> n equals a,t,g, or c

<400> 94
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<210> 95
<211> 1205
<212> DNA
<213> Homo sapiens

<400> 95
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<210> 96
<211> 484
<212> DNA
<213> Homo sapiens

<400> 96
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aaaataagtt ataaatattt gttgcatgaa tgaaatgtat aaacccattt atgtatgtat 180
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aaaa 484

<210> 97
<211> 1069
<212> DNA
<213> Homo sapiens

<400> 97
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<210> 98
<211> 1475
<212> DNA
<213> Homo sapiens

<400> 98
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<210> 99
<211> 1475
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1292)
<223> n equals a,t,g, or c

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cgtctcctgt gtgtatgtgt gtgagtggtg ggcaggccag tggcagggcc ggccccagcc 300
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<210> 100
<211> 1067
<212> DNA
<213> Homo sapiens

<400> 100
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aatatatatt atacatactc tccttacttt atttcagtta ccatccccat agaatttgac 180
aagaattgct atgactgaaa ggttttcgag tcctaattaa aactttattt atggcagtat 240
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aacccttttat ctcttagtgt tataaactcc acttaaaact gattaaagtc tcattcttgt 1020
caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa 1067

<210> 101
<211> 1844
<212> DNA
<213> Homo sapiens

<400> 101
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<210> 102
<211> 2122
<212> DNA
<213> Homo sapiens

<400> 102
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atgattctgc ttcctgggaa tgtcagaagg acctgatgat tatatttggc aaagccagga 840
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aaaaaaaaaa aaaaaactcg ag 2122

<210> 103
<211> 931
<212> DNA
<213> Homo sapiens

<400> 103
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<210> 104
<211> 1683
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1680)
<223> n equals a,t,g, or c

<400> 104
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acg 1683

<210> 105
<211> 1270
<212> DNA
<213> Homo sapiens

<400> 105
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<210> 106
<211> 911
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (265)

<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (327)
<223> n equals a,t,g, or c

<400> 106
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<212> DNA
<213> Homo sapiens

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<212> DNA
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<223> n equals a,t,g, or c

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<212> DNA
<213> Homo sapiens

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<211> 593
<212> DNA
<213> Homo sapiens

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<210> 113
<211> 2355
<212> DNA
<213> Homo sapiens

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<222> (766)
<223> n equals a,t,g, or c

<400> 113
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Application Serial No. 09/950,450

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<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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<213> Homo sapiens

<400> 116
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acggtccgct ccctctagcc agctccgaat cctgatccag gcgggggcca ggggcccytc 180
gcctcccctc tgaggaccga agatgagctt cctcttcagc agccgctctt ctaaaacatt 240
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agcaactcta ggaagtggga atctgagaca agctgttatg ttgcctgagg gagaggatct 360
caatgaatgg attgctgtga acactgtgga tttctttaac cagatcaaca tgttatatgg 420
aactattaca gaattctgca ctgaagcaag ctgtccagtc atgtctgcag gtccgagata 480
tgaatatcac tgggcagatg gtactaatat taaaaagcca atcaaatgtt ctgcaccaaa 540
atacattgac tatttgatga cttgggttca agatcagctt gatgatgaaa ctctttttcc 600
ttctaagatt ggtgtcccat ttcccaaaaa ctttatgtct gtggcaaaga ctattctaaa 660
gcgtctgttc agggtttatg cccatattta tcaccagcac tttgattctg tgatgcagct 720
gcaagaggag gcccacctca acacctcctt taagcacttt attttctttg ttcaggagtt 780
taatctgatt gataggcgtg agctggcacc tcttcaagaa ttaatagaga aacttggatc 840

aaaagacaga taaatgtttc ttctagaaca cagttacccc cttgcttcat ctattgctag 900
aactatctca ttgctatctg ttatagacta gtgatacaaa ctttaagaaa acaggataaa 960
aagataccca ttgcctgtgt ctactgataa aattatccca aaggtaggtt ggtgtgatag 1020
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gttatcacat agtcatactt ggttgtaata tgtgatggtt aacctgtagc ttataaattt 1140
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agtttcaagt ttgtatggta gtgtttttat agataagata cgtctatttt ttcaaaattc 1440
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aaaaaattac ttctatgttt ttattgtctc ttgagcctta gttaagagta gtgtagaaat 1860
gcatgaactt matcctaata aggataaaac ttaaggaaaa ccacaataaa ccatgaaggt 1920
gtacacatct taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa 1968

<210> 117
<211> 754
<212> DNA
<213> Homo sapiens

<400> 117
ggcacgagga aatttggggg aacggtgttc caggcatagg gaatagcaga tgtaaaggcc 60
gtgatttggg aataaacttg gtgtgatgga ggaatggcag agagggcaga acagagcaag 120
agggcaagat ttgtaggaga tgaggtcatc aggggcctgg caggccatgg tgggggtgtg 180
gattctattt ttaagtgctg tggaaagtca aggcagggtt ttagcagagc aaagatgcaa 240
cctggcttgg gctttataaa gctccccctg gctgcatgga gagaaataaa atgtaggcag 300
caaaagtgga agaggagagg cagctggtgc actaatccag gtgagaggta aagatggatg 360
ggtagggctg aaggatggtg gggcaggtgg tgagaagtga cttggttctg gagacatatg 420
aaggaagatg gtcaggcagg ccgggcacag tggctcatgc ctgtaatccc agcaatttta 480
gaggctgagg tgggaggatt gcttgagctc aggagcttga gaccagcctg ggctacatag 540
caaaacctcc tctctacaaa taaaaaaaag tagtcgattg tggtggcata tgcctgtagt 600
cccagctact gggaggcaga gataggagga ttgcttgacc ccaggaggtc gaggctgcag 660
tgagccaaga ttgcaccact gcactccagc ctgggtgaca gagccagacc ctgtcttaaa 720
aagctaaagc aaaaaaaaaa aaaaaaaaaa aaaa 754

<210> 118
<211> 1324
<212> DNA
<213> Homo sapiens

<400> 118
cccccgggct gcaggaattc ggcacgagct ttgctatgaa gtggcaaatt acatgtagag 60
tgtctccttc cttttcagag aacagttaat caaggcaaat cagcaagccc ccaaagtgct 120
gtaatttaac atcatgatta ccaccttcga agctatatat tttgcatact ttaaaatcac 180
ctaacttgga ctgcttgaat tacattggct tttagaaccg aaattgtaac tatgtattgt 240
atttcatggg aggtatattt tatgagcttt ttggctttct tttttcccac agcaactgcc 300
aatgaaggat gaatcccctt tttaaaaagt tgttgttgtt gttgttattt gattttgagt 360
taggagggat aatagagaag tccatttaaa aattatttt agaagctaaa gaaagtaatt 420
atgcttcctg tgaattgtct tttactggca tctttgtttt cctctttgat gttagtaaat 480
ttggtgtaat acgtggggct tccatatttc aaagtggaag ctttcttctc tgaagtcgat 540
atatggtttt gaattactag agctttggtc agtatttcct tccctatatg tcacagaggg 600
caccactgag aactgcgtgc ataggacctc aaaatacaaa attagcaggg cctcacagtc 660
agcttcctca tggctagttt ttccccctta tattacaatt tttgttttat aagtcatttt 720
tttcctgata tttccaccac ttttcagagt catctacaaa atttttcttt cctcaagaaa 780
agagttcctt ttgccttatt ccttatgcct tccccactgg tattgaggtt ttgataataa 840
attggtagga aaaaaaagta cctcctagaa ggaagccttc cccaccattt ccaggtgcca 900

actgctaagc agatatattc caaaaatggt aactgtcatg tgcacactgt tggttatttt 960
taataagcct cttcctacta gaacatttta ttttccttgt tcaccataca atcatgtact 1020
ctttaacaga aattgctttt aaaaaatatc tggaactatc tttaaaaaaa ctttattaat 1080
aatcatgtat ttttactgat cacattttga aatgcctaaa agactttatt gttctaatta 1140
tccagatgta cctttgtaaa atagctcttt tatgaattag ctgataaggc tgtatgtttc 1200
tggaacaaaa tattggtcat ctaaaaactt tctgttttct ggggtctggg aaaatagaaa 1260
ataagatttc aaatattaaa taagcttaaa ggaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1320
aaac 1324

<210> 119
<211> 1182
<212> DNA
<213> Homo sapiens

<400> 119
ggcacgagct ttgactcagt ttcttcatcc attaaaatgc cagcttcatg atgtggctgt 60
gaagattaaa tgcaatcatg tatgtaagga gctttgcata ctgcctgata tgagataggc 120
attcaagaaa tcattacatt gaagaaattt tcaattttcc ttctcctata aatccttgta 180
tgaaatcgaa atgagtgttg agatgaacaa aagacagcta gttcaaggtg aaaggttggt 240
aatttgctta caagatgagt ctcttcttca tttggcagct gactaaattg ttaaaagctc 300
agcctaattg tacctttgcc aggacatttt aatgacacca tttgtctctt cagttcttaa 360
gcactttggg gaaccagtag aatacaaagt agaatgtctg tgctttttac cttactccta 420
catcatcttt ctaaaattta aatgtactat cactaaccct gttttgattt agttgagggg 480
agaaaaaaag cttaaacttt actttcaggg tctaattggc taaagccatt tttccttttc 540
tgtttccaat actttttaa aaaaattata agttagtaat atctttctct ctgtctacat 600
atttgaactt ggatttaaag ctttctattt ttttctctta tatatgtctg tagtaatcag 660
gttttctcat tacgaagtgc taatgaaacc ttcagcttca cactggaagc ttctcaatta 720
ttggcattct gggtgttttt ctagacattt gttgtttcga acgagttggc cagtgtttgt 780
tgacagaatt ttaactgcct gaaaaatctg tttcagtaac cagatactca gtcatctgtt 840
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ggttcaacaa agaaggcaag acatggaagg atatagcagt tctggttctc aaactcctga 1080
atctgagaac tctcgaggtt tgggaaattg ttgtattttg actaaaattt aattcccctc 1140
aaaacatcct caccccaccc ccttaaaaaa aaaaaaaaaa aa 1182

<210> 120
<211> 911
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (353)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (418)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (891)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (901)
<223> n equals a,t,g, or c

<400> 120
ctagggcctg gagatgggac cagctgcctg cctgcccccc accccaggtt gggcgccgct 60
aagggctgga gcggctctgg gctccggaat cgcccgcagc cggtactgcg ggacccactg 120
cggatatggc tgtcttggct ggatccctgt tgggccccac gagtaggtcg gcagcgttgc 180
tgggtggcag gtggctccag ccccgggcct ggctggggtt cccagacgcc tggggcctcc 240
ccaccccgca gcaggcccgg ggcaaggctc gcgggaatga gtatcagccg agcaacatca 300
aacgcaagaa caagcacggc tgggtccggc gcctgagcac gccggccggc gtnmaggtca 360
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gcggggaccc tcatggaagc atcgccctcg cctcggacct tgcctggcgc tatttttgca 480
gggagctggg gagcaggaac gcctcggacc tgagtgctct ccatattgtg gggttgaagt 540
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gcgcaacaga ccaaagaaca gtacaaagaa catccgtgta cccagtaccc tgactaccga 660
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attatttctt ctgtaaatat ttcagaatgt atctctccaa gatgagagct cattaaaaga 780
yaattacaaa gcttatcaca tccaaaagaa ttatcaataa ttttgaaata ttattaaacg 840
tgtaataaat gttcaaaraa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa naaaaaaaaa 900
naaaaaaaaa a 911

<210> 121
<211> 1099
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1051)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1073)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1076)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1087)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1093)
<223> n equals a,t,g, or c

<400> 121
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tttttaaaag ttgctgttta aattaacttc ctgcatttct aatgtagaaa aaatatggca 120
cagtgatttg aattttgttt atggtttatt atcttcctaa attatcagct ctttaaaata 180
tgggtctctg gcctgtatac catctgataa attaggttgg gtaaattttt cacctgaaaa 240
aattcattct tttgacccag gttgtttggc ttggaaaaaa aaaatcacat actcattgca 300
tgattaaact tgtccatcag attgtgattt tgtgcgttat gaggattgta gctggggtaa 360
ttttaaaatg ttggtatttg gatagaactg ccagcccagg attttgataa agatcaaaat 420
atatactgta tctaaagttt ctttttaaa agttatttca cttataatca aaaggtttaa 480
ataagtttag tgtatatttt atgattagta ttattttgta tcgattcaga gagaggaaaa 540
ctgcattccc atagacaggg agacttggtg cattaatatc caaagcttag tttaagctgg 600
tgatgattag aaaagtggct ttcatttgtg ttctctggaa gattctcagt agtcctgtgg 660
gcatgtgaac aagagcatgt gtaatcttca taatgtatgt cttgttagca gaaatgtctg 720

aggcattgct gagatgtagg atgagctgag gtactggttt tgtctttcat ggttccctat 780
tatgtttttt gagaaactga gcttttcctg acagtgttta gtttttcttg gctatttact 840
aatgctatta atagtaacag tttccattat ggagcctcag taggttcttg acatacatta 900
acccattgct attatgtaat tttctaataa aatgatgtga taaaacatat tttctgtaat 960
atactcatag aatatgtgat tataagtaaa taaatagatg ttggggtaaa aaaaaaaaaa 1020
aaaaaaaaaa aagggcggcc gcccaaagga nccccgaggg gccagctaag cgncancgaa 1080
gcaagcnccc ccnaaaggg 1099

<210> 122
<211> 1379
<212> DNA
<213> Homo sapiens

<400> 122
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gaagtgtagc cactggaact ttcttgcatt tatggagttg ctttttcttt cccaaggaaa 120
ctgatgtttg cctgtccgct ttatctttgt agtacatgaa cagttcagcc ttagactatg 180
taactgtttt ctcatcctta gctgaaaatg aggggcctac tgtattgcga gactgttcag 240
gggtaggggt ggaggggtg gtcccttaat ggcccctgaa gatgttggat gtgtttctca 300
aaagctgctt tgtctctttc ctgagtttaa tagtgaaact actaaacatt aatagatttg 360
cacagccaca aagaatgaga gttgataata ccgaagaagt gatgcaaaaa caaaaaatca 420
cattactgat cattgatagt attacaaata aatgtctctt cctttctctt cctcccttcc 480
tccccctgcc ttcctcttaa cctatgtgct catccttgct acttgaggct gttatttccc 540
tccgagtatt taaggagccc aaacaccttg gtcttcctgg gtgggggcat aattaaggga 600
agggagtgta taaggaagga aacctcatac cctccattcc catccctgga tatattgcct 660
tttcagcagc ctcgggttca gtgtgcttgg ggtcaggagt gccaggttcc caagagcagc 720
gtaaaacatc cctgtacccc ttgacagtta taagcatttc tgcgttaaac ttgaagattc 780
cagagattcc ccacgaccta atgatctaag aatgcagatt ggattctttg atgttcaaat 840
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ggattgttga tgaaattgag cggttggaac accctcatgg aacactggca acatggaatg 960
tagagagctg atgtcttccc cctcatagag gccattggct tcctttgtat aaggagaggg 1020
agaagtgatt ctggaaggag aagttggtat gtctagcttc attgcggccc ctcgggctac 1080
ccagcaagag gattctgcat caaggaactg gacgagccgc tacccaaact gccaccatct 1140
ttactcttta caaaatggac ccatcgagaa tgttgaaaag cttggaagta tcacttttga 1200
aaaaaaaaaa aattattttg cattcagcat ggactcgacc aggcatctat ggagattatt 1260
tttttgcttc attttataaa gttgtattta gaaaagtctt aagtattgtg ctttgtaaag 1320
aagatgatta aaatgaaatt ttgtgagaat aaaaaaaaaa aaaaaaaaaa aaaaaaaaa 1379

<210> 123
<211> 581
<212> DNA
<213> Homo sapiens

<400> 123
gaaggatatg gactattgca atacatttct tccttcaaat cctgccactg ttttgttggc 60
ccacaactaa taggacctca aaataagcca tgctgctttg cacacacact agccttcttt 120
tgtacttttc attctggatg ggcttggcca aaacaggctc aggccaaaga cctcccaagc 180
tgtatgtact tccagtatcc tgaaacagtg tttggtgaca taatgccaag ggtaaacaag 240
cctgatttag gcactgcttt atccaggggc ttcacccatg aaattaataa aacttatctg 300
agtcacttga aacttggttc ccagaaaaca catttctggt ttataatctc cttttatgct 360
cacctgacat taattatcta tccttgatga tgtgtttaaa ctgagtagca gaaaacagag 420
gccacacttt ctgggaaatt ttaaaggaag aaaccatttt taatgagatg aaaatattta 480
acgaatttaa aaagctaatg acaattttga gaaaaggttt gggatgtata ttgctatgta 540
atttaataaa ctgattttat ggatataaaa aaaaaaaaaa a 581

<210> 124
<211> 1284
<212> DNA
<213> Homo sapiens

<400> 124

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gaggaggagg ccaggaccat cagagtgaca cctgtcaggg gccgagagag gctcaatgag 120
gaggagcctc caggtgggca agacccttgg aaattgctga aggagcaaga ggagcggaag 180
aagtgtgtca tctgccagga ccagagcaag acagtgttgc tcctgccctg ccggcatctg 240
tgcctgtgcc aggcctgcac tgaaatcctg atgcgccacc ccgtctacca ccgcaattgc 300
ccgctctgcc gccggggcat cctgcagacc ctcaatgtct acctctgaag cctccttccc 360
tgcctgccca cccctccatg ctccacgcag gcactcacgc taggacagca ttaacacctc 420
atctccgggt cctggtctga atcccctcct acccctgtgg ccatcctgcc atacatccag 480
gacattgagt tggaagacta tgatctgggt gggggcagga taacatggct tctctttacc 540
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cctgtctgct tctggttttt ctgttggaga tctataggtc cttttcctgc ctccttcaca 720
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caggagggat aaccggattt ctgctctttc ccctgtcact cccacatcac acagaaaaat 1080
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tccaaataca gaagggccca gggcccaggg gcttgcagct tcgtgagggg tctctggccc 1200
agtttccaat gaataaagtt ctcttgacag ctmaaaaaaa aaaaaaaaaa aaaaaaaaaa 1260
aaaaaaaaaa aaaaaaaaac tcga 1284

<210> 125
<211> 431
<212> DNA
<213> Homo sapiens

<400> 125
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ttatgctgca gcacatatca accttcccta agtaaccatt tcctggaatg tgaagcatcg 180
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tataaggctg gttgtgactc agatcagctt aacttttttat attatgttat ttcactaact 300
gctacagtca aaatgatcaa atctttgtac aatagaaaat tatttaaatt ttatttttct 360
actgacattt ctaattctag tgtaaatgtt tatcaataaa aaattacttt caaaaaaaaa 420
aaaaaaaaaa a 431

<210> 126
<211> 876
<212> DNA
<213> Homo sapiens

<400> 126
ccacgcgtcc ggaaaaaaag tatggaaaag gaatgttgac cgagctttta tgcttaagca 60
gcagatgaag atagaaccaa gatcactgaa agcaagtgtt tagaacagca aaaagagtat 120
cccaacattt cagcattgga actacagaaa gttttcagac agaggggaag ttaccaattt 180
taaatgctaa gtaaagcatg agattttgct gcttgatctt gcagatactg accagattag 240
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gtagttattc atgttagcct cagaggatgg tgagacatcc agatgaagag gttggtacgc 360
aattctagaa ttgaggaggt gtctagatag agatataaat tgtagtgaca tcagtaaaga 420
gacaataaca ggctttggaa ggtgagtaag aatgaaaagg gaaggtctgc cacctaccct 480
gaagacatac atttaaagga actatagtag agagataaga ggaaaacaag aagagtggag 540
tttcactgaa ccaagacaaa caagtttcaa aaaggaaggt gaagttggcc aggtgtggtg 600
gttcacgcct gtagtcctgg cactttggga ggctgaggca ggcggatcac aaggtcagat 660
cgggaccatc ctggccagca tggtgaagcc ctggttctac tggaatgcaa aaattggccg 720
ggtgtggtgg cgcgtgcctg tggtcccagc tgctcggggg ctgaggcggg ggagtcgctt 780
gggcccggga ggcggaggtt gcggtggggt gggctctcgc cactgcactc cagcctggtg 840
acggagcagg acttcatctc aaaaaaaaaa aaaaaa 876

<210> 127

<211> 2157
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1334)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1348)
<223> n equals a,t,g, or c

<400> 127
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gaaggcagtg acactgatga tcctgaccct gtctaggtcc aggctaatgt gtgcgtttgt 120
gtcttggttt ttaacaaaga agtttaaaag gtaaaaagaa agttaaaaaa tttaaagtag 180
aaaacagctt acagaataaa aatatacaga aaatattttt gtacagcagt acaatgtgct 240
tgtgttttaa actgttatta caaaagggtc aaaaagctgt aaaaaaattt tttaagttca 300
tgaagtaaat aatttacagt aagctaggtt taatttatta ttgaaagaaa aaagcgtatg 360
aataaattta gtgtagctta agcataccgt gtttatttt atttttcata atgtctgctc 420
agtaacaagt gtacagtgtt tataaagtct acagtagtgt acactcatat cctagggctt 480
cacattcatt caccactcat tcactcactc acccagagca acttccaggc ccacaagctc 540
cattcatgct aagttcccta gataggtcta tcatttttta tcttttataa catattttta 600
ctttaccttt tctatattta catatgttta gatacaaaaa tatttaccat tgtgttccaa 660
ttgcctgcag tatttagtac agtaacatac tgtgtaggtt tgtagcctgt agcctaggag 720
caacaagcta taccatatag cctaggtgtg tagtaggcta tgccatctac atttgtgtta 780
agtacactct atgatgttca catgacaagg aaatttccta ctgacaatgt atttctactg 840
ttaagtgata cataactata tgtatattag tttgtattgt tcagtaatgg agagattgtg 900
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<211> 1585
<212> DNA
<213> Homo sapiens

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cgtcatgacg gcctctccgg attacttggt ggtgcttttt gggatcactg ctggggccac 180

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gagcaagact ccatcttaaa aaaaa 1585

<210> 129
<211> 792
<212> DNA
<213> Homo sapiens

<400> 129
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aaaaaaaaaa aa 792

<210> 130
<211> 1351
<212> DNA
<213> Homo sapiens

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<222> (864)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (876)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (883)
<223> n equals a,t,g, or c

<400> 130
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ttttgagtca tcccagtttc ctgaaagtaa tgcccagtct tcctgaatcc tccttaatag 180
cagaaccttg gtgattttgt tggctcatat gaatgcttgt catggatatg ttaacaattt 240
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<212> DNA
<213> Homo sapiens

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cagaaccttg gtgattttgt tggctcatat gaatgcttgt catggatatg ttaacaattt 240
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<210> 132
<211> 3397
<212> DNA
<213> Homo sapiens

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<222> (1)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (15)
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<222> (24)
<223> n equals a,t,g, or c

<220>
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<222> (3081)
<223> n equals a,t,g, or c

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<210> 133
<211> 2812
<212> DNA
<213> Homo sapiens

<400> 133
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<211> 1145
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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gnccn 1145

<210> 135
<211> 1509
<212> DNA
<213> Homo sapiens

<400> 135
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<210> 136
<211> 1365
<212> DNA
<213> Homo sapiens

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<222> (2)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (7)
<223> n equals a,t,g, or c

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ttcataaggt gcaaataaaa gttggtgaca gatttaatat aattttgatc acaatttaca 360

aatgatcttt gcaaatagtg gtcagacggc attagttttt cccttagtta agctaaatta 420
aagggactcc atcctgttat gattatatta ttattattat tattattatt tttgaggtgg 480
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atatttatgt ctagctttta tatgtaattt atctagtgtt tataaaatgt gatttgtaat 1320
aaatgttgtt aaaatgaaaa aaaaaaaaaa aaaaaaaaaa aaaaa 1365

<210> 137
<211> 1857
<212> DNA
<213> Homo sapiens

<400> 137
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attagcttgg gtgatgttta atttgggtgg cgatagtttc tgtaggctaa acttgatgag 180
aaaagtgtac ctactctata aaggtaataa atgtaaaacc tcttgctgtt attgaggaag 240
ctcttcaact accctaaatt tcacaaatgt aacttataac actatgaaaa gattgaccaa 300
caatttacgt ttgctgtgtg cttagttttt gtttaagcat attctttgct gaattctgtg 360
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aataaagtat atatttgccg gttatccata tcttttagaa gtcctgacag aacaaccagt 540
ttatttgcac ataggtagct tctgtttgaa ggaaggtaaa gttataagga aactcaaata 600
ctataagatg tgtcaaggta tttctccaga attaattgca aagctagtgc tgaaggattt 660
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tcaaatacta aataaaaact tttaatgcca aaaaaaaaaa aaaaaaaaaa aaaaaaa 1857

<210> 138
<211> 1810
<212> DNA
<213> Homo sapiens

10/565,469 JAN 23 2006

<400> 138
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aaaaaaaaaa 1810

<210> 139
<211> 1879
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (41)
<223> n equals a,t,g, or c

<400> 139
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aaaattgaat ctttgtact 1879

<210> 140
<211> 1879
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (41)
<223> n equals a,t,g, or c

<400> 140
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aaaattgaat ctttgtact 1879

<210> 141

<211> 556
<212> DNA
<213> Homo sapiens

<400> 141
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<210> 142
<211> 1632
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
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<222> (1116)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1300)
<223> n equals a,t,g, or c

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<213> Homo sapiens

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<211> 1380
<212> DNA
<213> Homo sapiens

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<212> DNA
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<211> 1882
<212> DNA
<213> Homo sapiens

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<222> (1407)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1412)
<223> n equals a,t,g, or c

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<213> Homo sapiens

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<211> 284
<212> DNA
<213> Homo sapiens

<400> 148
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<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<211> 1245
<212> DNA
<213> Homo sapiens

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<211> 1961
<212> DNA
<213> Homo sapiens

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attctgtttt aatctgtgta ttctttttct cctacttttt actggggtga gaggggcatg 1740
aagagaaata cgccttttt ttttttcttt cctgtcgcca aggctcgact gagagaagtc 1800
agaacagaga aggggaaaaa aaacccaaaa ttatgtgaac aagcaaaatt aaaatttcat 1860
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aaagtcaact taaaaaaaaa aaaaaaaaaa aaaaactcga g 1961

<210> 152
<211> 936

<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (699)
<223> n equals a,t,g, or c

<400> 152
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ccccccaaag tggttgatcg ttggaacgag aaaagggcca tgttcggagt gtatgacaac 120
atcgggatcc tgggaaactt tgaaaagcac cccaaagaac tgatcagggg gcccatatgg 180
cttcgaggtt ggaaagggaa tgaattgcaa cgttgtatcc gaaagaggaa aatggttgga 240
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cactttaacc gacatgggaa gtttcgatag aagagaaagc tgagaacttc ggaaaaggct 360
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tagatgctgc ctctactcat gtagactatg aagtcttgac tcatcctaga tcttaggatc 540
ttaggtttgg gcttcacacc acttgccttt tacagtctag ctatacctaa ttcctttaaa 600
aagaaaagtt ggtgagaatg ttattggcgc tttttgacat aatgctgtta tgtymatagt 660
gtttctaaag agccttccac actgaaatga aatataagna gaaaaatgga gtcatacttc 720
tgtactactc tcataaaata tttattaggc atattctctg agtaggaact ataggaaaaa 780
caaaaaagtg tgaggtgtcc tttccattta aatatgaaac attaagtacc atatgaatgg 840
tagagatggc ggatactaag cctgactggt catcagtttt ctgggtgttt taacatttca 900
aaagcctagt cctaacccct aaagattgat cagtag 936

<210> 153
<211> 3853
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (210)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (3808)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (3819)
<223> n equals a,t,g, or c

<400> 153
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tttacagaag ccgagaccca cagctatgcc gccacggcct ttggggaaat gcgtgcactg 120
cgtccctcta gagggggaag tttgttgccc tggagaacat cagctgcaag attaagtcag 180
ggtgcgaggg gcactcccgt ggccgaatgn actctgtact aagtgccagc cgagcgccat 240
cacgctgaac agacagaagt acaggcatgt ggacaatatc atgtttgaga atcacaccgt 300
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cggacggtac acggagcaca aagacattcc ccttggcatc agggctgaag tggctgcgat 420
ttatgagcca cctcagattg gtacacagaa cagcttggag cttcttgagg atccaaaagc 480
tgaagtggtc gatgaaattg ctgccaaact tggcctgcgg aaggttggct ggatatttac 540
agacctcgtc tcagaagata cccgaaaggg taccgtccgc tacagtcgaa ataaggacac 600
ctatttccta agttcagaag agtgcatcac tgcaggagac ttccagaaca agcatcccaa 660
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caccctctca tgctaccagc accataatcc agtgggggtg actgggtgca cacctgccca 3600
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ggtgtgcatc actgggcttg gatttgcatt acattgaccc cagccctgca gtggaaccta 3780
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cgcccaaaag ggg 3853

<210> 154
<211> 1357
<212> DNA
<213> Homo sapiens

<400> 154
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ataatacatt taaaatacct gtcaaagttt taaaatataa gatagaacct tctttttttg 120
ccttcttaca catgaatgta cttaaagtat tgttatgtga tcttgggata cttatttatt 180

tttgaaattt ttgtatatat agcatttctg aacttagcaa ataatatgtg taaaggaatt 240
aaccaaaaat gaaagaactg gcattttcat atgggataca tatttgctta aactaaataa 300
aataacttag atttatttaa atcaggaata tttacgttgt tgatcatttt taaagtatat 360
ttgttcaaat attcctaatt tgtttttcag cacacttgtt taagttcttg cctttcaggt 420
atactacagc gttatatgaa cataatgttt taaaaaaatc ttggttgtag tttctaattt 480
tcactgcata acaaatttga aaccaaatgt tgaatttctc tgtgagggta cttattttgc 540
ctacagtttc aaatatattt tcaaattcat ctctttctta ctagactgtg agctccttgt 600
ggacaaggat gttattttag ttataatgac aactttaata tctagcaaag tgccaggcat 660
agagtattcc tttattgaaa tgaattgata gatattgatt attaaaatgc tactacagta 720
ttctacgatg caggctgaat gtatattaca gtaattctct ggctaatttt aaaagtaaga 780
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ccttttttatt ttgtcaaaca ttctatgcaa atattgaaat atgcaacagc taaactttat 900
ggtacatatt aattagtttt attttccttt tcaaaatcag aaatgctgta tttaagcttc 960
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tttttactgc aggtctgtgc tgtttcttag aaagtacatg catatatatt tctataatat 1260
gtaagaaaaa acctgtattg cttattaaat taaaattaaa ataaaaaaat tcatgttaaa 1320
tttttgaaat gaaaaaaaaa aaaaaaaaaa aaaaaaa 1357

<210> 155
<211> 810
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (22)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (26)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (43)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (54)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (59)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (88)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (806)
<223> n equals a,t,g, or c

<400> 155
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attaatgcca gctggcacgg acaggttncc cggactggaa aagccgggcc agtgagcgca 120
acgcaattaa tgggggggttg gctcacttca ttaggcaccc caggctttac actttatgct 180
tccggctcgt atgttgtgtg gaattgtgag cggataacaa tttcacacag gaaacagcta 240
tgaccatgat tacgccaagc tcgaaattaa ccctcactaa agggaacaaa agctggagct 300
ccaccgcggt ggcggccgct ctagaactag tggatccccc gggctgcagg aattcggcac 360
gagccgagaa ggcccttaac tcaaagtagc ttatttatcc aaaatgttct ggatgcatca 420
tctccaacca aggacccctt atttatcatg cctttgttct cttttccctc agatgtatat 480
ttctttaaaa ataatttttcc taataacaaa acttatttct aaaacagctt aaaaattcaa 540
agaaaaaccc caaacactga cattacctac acttccacta cccaaagaca aaatgtgccc 600
actgtgtgct tttgagtgta ttttctttta gtttgttttt tgttgggtgc atatttatga 660
taataacaat gatggacttc aattgtactc actgttctat tgttggtttt aattagcagc 720
aagttgtgat cactttccca ggtgaataaa tcatttcaaa gcaaaaaaaa aaaaaaaaaa 780
aaaaaaaaaa aaaaaaaaaa aaaaantcga 810

<210> 156
<211> 811
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (23)
<223> n equals a,t,g, or c

<400> 156
ggcacgagct catccagaga tgnactgggc acagggaaag ctttttttttt caagtagcag 60
ctgctattca ttgaaatgtt acaattttcc tgccttagta tttcacacgt ccttatactc 120
ctcataacat tttttgcttg tgtagtttta gccccatttc agaaatgagg aacccaggtt 180
cagaaggttt agaagcttgc tcaagacccc ccagctatta ggtgccagag ctgcaactgg 240
aatgcagctt tgactccatt gtgggtttct gttccattat caagagtagc ctgacagttg 300
gcaataacaa tgactgaatg aatgaataaa tgattctcca aagaaaatag ttcatgtttc 360
cctagtatga gggaatactt gagatagttg ttttgagaag ggggccacag accaggagac 420
accaataagt ctttctcatt tctggtaaat cgctttataa tgaccgttat tataaagtgt 480
aaaaacaaca acaacaaaaa ataataggcg cagtggttca cgcctataat cctagcactt 540
tgggaggcag aggcgggcgg atcatttgag gtccaggagt tcgagaccag cctggccaac 600
atgatgaaac cctgtctcta ctaaaaacac aaaaattagc cgggcggtgg tggcgcgtgc 660
ctgtgtagtt cacagctact cgggaggctg aggcaggaga atcgcttgga cccgggaggt 720
gaaggttgca gtgagccgag attgtgccac tgcactccag cctgggagac agggccagac 780
tccatctcaa aaaaaaaaaa aaaaaaaaaa a 811

<210> 157
<211> 1010
<212> DNA
<213> Homo sapiens

<400> 157
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ttaaaaaaaa aaacttcaga ttttgtttac atattttact acatttttgc tggtataatt 120
ccttagccac ctatgtacat actgctttaa gaaatgtttt tttcctgttt atttctgttt 180
ggtttatatt ctggttgtct ttttcttttt gtaaagagga aacaatgtac agaaaaacaa 240
taaactggtt gtatggccat agctatccga aaagcaagag acaaagcaag acaaatattc 300
acacaaaaat gaagtgtgtc ctctggaggg tcatatatac aatttctttt gtacagatga 360
aaatcaatca gctgcttaga tttagaaatc tactcttgct ggtctttgta agttgcatga 420
atatttgact ttgaaaaaat atcttaacga catggggcaa aaagtgcaat ctaaatggta 480

gcctttacta atgtgtgtgg aaagaggtgt tcctcattat ctaatatttc aatgtgttaa 540
gagtttaatt tttttgttat cattaaaaaa gacaggatta taaagagata tcaaagcacg 600
attttagata acctaaacgg cccagcctat acgaagttga ttatatctcg atgtctgtaa 660
aagattgctg ttcttggagt cttgaggtct tgtgaattga tttcctgctt tctttcattt 720
ttttcaattt aagtaataat acatttgtta tattcctttc agtgtaagtt tctatttgga 780
caattttatg ggaacatgtg cattctctat gtgagcttct atcatattcc tgttttatta 840
gcagaaccta aaggaattta tttaatgatg ttgtgacatt actgcttttt ctttttcttt 900
ttcttagttc atatttgcat tttcgttcaa ggatatgctt agcaataaaa tgttcttccc 960
aaaaaaaaaa aaaaaaaaag aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1010

<210> 158
<211> 1199
<212> DNA
<213> Homo sapiens

<400> 158
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gttttgacac cagaacttag tcctgggaaa cttcaggtct tacctttga gaaagcctca 120
gtatgtcatt atcatggaat tgaatattgc ttggatgacc gaaaagcttt ggaaagagat 180
ggaggatttt ctgaacttca gtctcgtctt attcgttatg aaactcaaac tacctgcacc 240
agagaaagtt ttccagtacc tactgtgttg agccctcttc catctcctgt agtttcgtca 300
gatcctggaa gtgtccctga cggagaagtt ttacaaaatg aacttcgaac tgaagtatcc 360
cgactgaaac ggagatctaa agatctgaat tgcctttatc ccagaaaaag acttgtgaaa 420
tctgaaagtt cagagtctct tctttctcag acaactggta atagtaatca ctatcatcat 480
catgtgacat ccagaaagcc acaaacagaa cggtccttac cagtgacttg tccattggtt 540
ccaattccta gctgtgaaac tccaaaactt gctacaaaga ccagttcagg tcaaaaaagt 600
atgcatgaat caaaaacatc aaggcaaatt aaggaatcaa gatcacagaa acacacacgg 660
atactgaaag aagtagttac tgaaaccctg aagaaacaca gtattaccga gactcatgaa 720
tgtttcactg catgcagcca gcgtctcttt gaaatctcta agttctatct aaaggatctt 780
aaaacttcaa ggggtctatt tgaagaaatg aagaaaacag caaacaacaa tgctgtacag 840
gtgattgact gggtattaga aaagacaagc aagaaatgat acataatcat tctctttaag 900
acaattataa attggatgga gctattattc actacttctt ttcttagttt gaaaattata 960
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tatattctat atttgtatag tttgagggat gctatgttaa tgtattttta attagataca 1080
tattttgtaa agtgttacta tattttaaag ttatttttat atgttttaaa atgtttactc 1140
ttatttaatt attacaataa acagaatttt tttttttta aaaaaaaaaa aaaaaaaaa 1199

<210> 159
<211> 434
<212> DNA
<213> Homo sapiens

<400> 159
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gatgtggaag gtggaaggaa agacaagtgt tagcaaatgc agacctgtct gctgtggaac 120
ttgaagacct tgctagtagt caggctgctt cctggcattc caggcctgar aggcttctat 180
tttgactcaa agcaaaaaca aatgctatgt taatgtcttc ctatgtgtcc ccttcataag 240
attttggtga aatcatatta aaagtgcatt tctcagtatc actctcagtt atttagagat 300
ttcagttccc cagtaccctg gcaagggatt tgacgaacgt agcaagaacg tcgtgaactt 360
tgagctaatt tatatcatgt tcattgtctg ttaataaata aaagccaaga aaaccagagc 420
aacaaaaaaa aaaa 434

<210> 160
<211> 716
<212> DNA
<213> Homo sapiens

<400> 160
ggcacgagca ggattccgtc tcacaaaaaa aagaaaagaa aagaaaaaag agaagagaaa 60
agaagaaaga aagaaaggaa attttgtcta atagttgaat ttactccatt tatatgtatt 120
ggtataacaa acattttgga gcctacatct taccatattt catgttgtat ttgtattgta 180

attcttttttt attatatggt ctgttctatt ctttcttttt ctattctccc tttctgggaa 240
gactttggta tctcttttttt atttttcctt tttttcctaa gggaatggca aatagtgttc 300
tcacaggttt aggagcggtg gagtagaatc taagaaactg agatgaaagt acatgaacca 360
tgcaggttca gaaattgaca atgcagctta tggtgtagag agagatttac aacgctatta 420
acttttttatg tggattcttt gctttatgtt aaagtctttc tttttgttct cttaaattgc 480
cttcacagat aatttaagcc tgtggctctg gtctgtggat cctctttcat cataatcctg 540
aaacatcatt tgtcttttttt actgatggta cagaaagcaa tgatggatga taaaactgat 600
gatgccttac catgagtcaa ggcagcggca ccaaactgta atagtaaatg tagtaatagt 660
cgtatgttct ttagtaagaa ccaagcactt cagtaaaaaa aaaaaaaaaa aaaaaa 716

<210> 161
<211> 2503
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (2497)
<223> n equals a,t,g, or c

<400> 161
ggcacgagcc caaaccccaa ctctcagact tacctcccaa accacagatg aaggacctgc 60
cccccaaacc acagctggga gacctgctag caaaatccca gactggagat gtctcaccca 120
aggctcagca accctctgag gtcacactga agtcacaccc attggatcta tccccaaatg 180
tgcagtccag agacgccatc caaaagcaag catctgaaga ctccaacgac ctcacgccta 240
ctctgccaga gacgcccgta ccactgccca gaaaaatcaa tacggggaaa aataaagtga 300
ggcgagtgaa gaccatttat gactgccagg cagacaacga tgacgagctc acattcatcg 360
agggagaagt gattatcgtc acaggggaag aggaccagga gtggtggatt ggccacatcg 420
aaggacagcc tgaaaggaag ggggtctttc cagtgtcctt tgttcatatc ctgtctgact 480
agcaaaacgc agaaccttaa gattgtccac atccttcatg caagactgct gccttcatgt 540
aaccctgggc acagtgtgta tatagctgct gttacagagt aagaaactca tggaagggcc 600
acctcaggag ggggatataa tgtgtgttgt aaatatcctg tggttttctg ccttcaccag 660
tatgagggta gcctcggacc cggcgcgcct tactggtttg ccaaagccat ccttggcatc 720
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actgctggct ttgcaaatag aagtggtctc cagcaaccgt tgaaaggcat agaattgact 840
ctgttcctaa caatgcagta ttctcaattg tgttactgaa aatgcaacat tagcaaagag 900
gtgggttctg ttttccaggt gaaactttta gctccatgac agaccagcct gtagttatct 960
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agctgttctt ttctgtggcc tagactcttt tcactgatct caaaataaac tggtttttt 2460
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<210> 162
<211> 1108
<212> DNA
<213> Homo sapiens

<400> 162
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tttcacctca cttctgctct ccctgcaggt gaatgtgatg ttcatgcttg ccattcttct 180
gacattcttc cacccctttc tggtatatcg ggaatgccgt acttggaaag aaagtccctc 240
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tctcagttgc caagcagatt gatatcacac agactcaaag caaaggcatg tggaacttct 480
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gaatagtgac agagtcaggc caccccaagg gccatgggag ccagctgacc tgcttgaccg 960
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gtctaaggca aaaaaaaaaa aaaaaaaa 1108

<210> 163
<211> 930
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (137)
<223> n equals a,t,g, or c

<400> 163
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tctgtatata tatatanctt taattttaac cattttatga attgtaaagt ttatgtattt 180
ccccatctta atatattatt cccagttttt tgattacaag caatgtaatc taaaagtaca 240
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tggaattgtt gttatagagt gtgtgctttt tcagctttac cagatattgg taaattgctg 360
tctgaagcaa atgtagcagt tcacactgct gtctagaatt ttctcatatc cttattagat 420
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caaatgtatg aaactatata tccatcacca caattgagtt acaaaacatt ttcagaatgc 720
caaaaaatgc tccattgtgg taactgtctt ttcccccatt gaattaattg tcttggtaca 780
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ttgatctata attatgccaa taccacactg tcttgattac tgtaacttta gaataaatct 900
tgaaagtaaa aaaaaaaaaa aaaaaaaaaa 930

<210> 164
<211> 794
<212> DNA
<213> Homo sapiens

<400> 164
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acacctgtag cattgaggtg actgaatgcc tccacttatt tcaggaaaac gtatccaaaa 180
aaagttgaaa tatttggaca actttttttt taagtgccat cgatttccct agcagcattc 240
taaaagatag caagtaaaat gatgtttgtt atcctaaatg ctttagtttt aggtcattta 300
ttaattttct tacaggtgca ctttctagta catgaagtat cctttgtaat taatgtgtgc 360
catatgttta ttcccattta gtataactat aaattatatt ttaaattata tatttttagg 420
atagttatat tttttttggg ttctacgaca ttgaagttgg actagtgatt tatttgaatg 480
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ttctccttca atgtgccttt accttggagc tttaacaact tttctgttaa atatgtagtt 720
ttttattaaa caatgttatt aaataaaaac atttatccac tgaaaaaaaa aaaaaaaaaa 780
aaaaaaaaac tcga 794

<210> 165
<211> 1145
<212> DNA
<213> Homo sapiens

<400> 165
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aaaagaaact gagttattga gtgtattaag acaaggcact gagaactaca gtgtcaaaat 180
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cttaaacaag gtgatagctc ctctcttctt tagcattata ttcctttagt caacaaagaa 360
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atttggaaaa gcttaagaca aatttactga tattatttta tgatcattta ggattacaga 780
tcaatttacc tccataaatc tttgaattgt cactgtgacc acaggatgaa aatcctttat 840
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atgaagtcta ttatgagtac tgaatgacca aagaacatgg aaaaaatgca tatgaataaa 960
tactgaaatg tttatgaaag atatttatga aagatattaa gacttctgtg tttaggtatg 1020
cacatatgat aaaataaatc taaaaacatt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1080
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1140
aaaaa 1145

<210> 166
<211> 1927
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1899)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1922)
<223> n equals a,t,g, or c

<400> 166
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aaagctctct tttttatcta ctaataatgt gattgcaact taaaatagca aaacccaact 120
ctccctgtcc ctccaatccc tctcctaaaa agttcagttt ggaatctcat tctggaaaag 180
atggaatcgc atggagattc tctagctgtt aggtagacct aaataaaaag ttctcaatag 240
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taaaagacca ttgcaaatca gtgtaagggt ttttccagta attactcaca gcactttgtt 540
aaagtttgca atttcttcag ccatttaata atatctttct gtgaagaaac tttgctgagt 600
taaccataaa tgttcattca ttgactgggt gggatgtgaa tggaatgtta gaaatgttgt 660
gtgaattgaa gttctgtatt cattatagat gtagccctta tttaaaaaag tgaattccat 720
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ttcttcaatg tggtttaccc aactggagta gtgataaaca ccttaatcat aaaatgaata 1860
aaaacaaaaa aaccaaaaaa aaaaaaaaaa aaaaaattnc tgcggtccgc aagggaattc 1920
antggcc 1927

<210> 167
<211> 1316
<212> DNA
<213> Homo sapiens

<400> 167
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gattgcctat actttgttca caaacgtgtg atttagatat gactgattta gaagtgaaca 180
acttggtaac atccctagac tccactcatg aacgcagaat tattacctgc tgtttgcttt 240
ctgaaagaat ttcagaaatc agagcaaatg tgtctttagg cagattcagc tccttttaat 300
atttttctct tggcccactc tctttgcytc ccctgaatct gtgtggtact atagcagctc 360
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<210> 168
<211> 1340
<212> DNA
<213> Homo sapiens

<400> 168
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tctatggcag ttctgcggcg ctgtcaggaa tcagatcgtg aagaactcaa ctactggaaa 180
agacggtaca atgaaaacac agagctgagg aaaacgggga ccgagttggt ctccaggcag 240
cacagccctg ggagtgcaga ttctctcagc aatgattctc agagagagtt caacagcagg 300
ccaggtacag gatacgtacc tgtggagttt tggaaaaaaa cagaagaagc tccttcggcc 360
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tttgggacct gttttttttc tcatttgatt ttgcttgtgc agaaaatagt ttccagcaca 660
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<210> 169
<211> 2097
<212> DNA
<213> Homo sapiens

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atttttattg ggtgttaact ttgacagctg agagtgggct tgcaagaaca caatctaaaa 180
gtgtgtttca attgagtatc tctctagtag aataggagtt catcctgaaa agctgtgact 240
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agttttaata caattcacat gatttctatg tttcttaatg atattttgtt gtgtaaaatt 1980
gatcggattg attaaaaaac aaattctctg gaatttgtgc gttcatgctt tttcgtattc 2040
tttatggctt ttaaataaat atacaatggt taatagtaaa aaaaaaaaaa aaaaaaa 2097

<210> 170
<211> 958
<212> DNA
<213> Homo sapiens

<400> 170
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cattgtcacc tgcacaagca caagaatgcc tggtcggggg tgaatggagc tgatatccat 180
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tccccccag tttttttctt aaaatgaagc tcatcaaaca aatgtaccat tctgaggtgt 480
gttctcaagt catatattat aattcatttc actcaaagta tatgattaaa gctcattcaa 540
agccctaaga gttgggaatg aaggaagaat tgtaggatgt tctgctgtgc cacaagactt 600
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ggcacgatgg cttacatctg taatcccagc actttgggag gctgagtggg gcggatcact 720
tgaggtcagg aattcgagac cagcctggcc aacatggtga aaccccgcct tattaaaaat 780
acaaaaaatt agccagctgc agtgacatga acctataatc ccagctattc aggaggctga 840
ggcaggagga tcgcttgaac ccaggaggtg gaggttgcat tgagctgaga tcatgccatt 900
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<210> 171
<211> 1302
<212> DNA
<213> Homo sapiens

<400> 171
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gactcaactt tccatcccct gaaatcactc acaagctgag tttgttaata ggctctcaat 840
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ttaattgtat atgttttact gtactagact tagtaaaaca taagaaagac gtataacata 960
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gtggcacatg cctgtaatcc cagctactca ggaggctgag gaaggagaat tgcttgaaca 1200

caaaggtgga ggttgcagtg agccaagatc gcaccactgc actccagcct gggtgacaga 1260
gcgagactcc tgctctcaaa acaaaaacaa acaaaaaaaa aa 1302

<210> 172
<211> 558
<212> DNA
<213> Homo sapiens

<400> 172
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gcaactctct gctttgctcc cagctgggtc tgctgttcta gtgagcgcca gcagttattc 120
tcgttttctg cagtattccc aggctgccaa aaggctctgc tctgtaagct gagaaagact 180
caacagctac aacactggtg ttcacagcag caaggtttat ttcctcacaa gatgatattc 240
ctgggtttgc atacgtttgc tcttttcagt gaaccatgtc ctctaaatgt caccttgctt 300
ccattcagca cggtctgtgt tccgactgtc caggggcttc caggaacagc ccacagattg 360
atggcttgct gaaagctccc tcgttatctt tcactgtaaa ttcctttcat cagtaatctc 420
ttgtgccctg gatgcagcac ttctttgtac gcgtgctgtg aaataaaatc tcagataatg 480
tgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 540
aaaaaaaaaa aaaaaaaa 558

<210> 173
<211> 1679
<212> DNA
<213> Homo sapiens

<400> 173
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tagctcttca cagatatcat gtattgtaaa cagtcatgtg tcttaatttt attttctcta 180
tttgagtgca taattatcct aataatccca aagacactga caactcaagg aacagcagta 240
cagtactatt agaagttaag tatgttgttg ttatttcaca tttcatttaa ttgtggataa 300
atgttagaca tctgttgaaa taagctcata tggtggaaac gacaactata ttatgaatta 360
ttttcagaaa tggatctttg aatagcagat caggatttaa ataataaaat tatctatgaa 420
tcacttttat ggtcatacat atatgataca aatccagagt tattggtgca gaaatggcta 480
cccgagagct tggtaaattt gccttggttt cttatgttaa atgtattgtg cttcccttct 540
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ttactgaata actgaaatgt cagcaattta aaataaattc aattgtgtga taaaatatct 720
cacctataat agaagaaaag gaaaatcata ttatttggca attttgcagc attgtggttg 780
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tagtaaaaaa ttaaggtact ctcactgcag agatttaagc ctgggcctaa tgtgctgtat 1560
tatgaagcct tgtgactgaa aaatatgttt acatatgttg tctatttttt taataaactt 1620
ttatagctgg tctatttgct cagtaaaaaa aaaaaaaaaa aaaaaaaaaa aaactcgag 1679

<210> 174
<211> 1335
<212> DNA
<213> Homo sapiens

<400> 174

ggcacgagaa atgataatag gcctccccca aaactcagct gcttttgtaa agctaatggg 60
aggccatcag gctgggggca aggaggagag cccggatcct gctaaggtgc agacataaac 120
gagtatcagc cattattctg gaggttataa gatatgcacc ttccccaatt acccctgcaa 180
tcacaccatt attgtagatt ggcccttaga gtatcttttc aggttttttg gcatgtctga 240
cactcatggc tctacttgga cccaccaacc ctgctcctat ggctccaccc agaagccatt 300
cagcctagag gacagctctg acccccccctg tgatttcata caatcagcag caagtaactg 360
ttacctcacc atccccaccc cttctgccag actgcctttg aaaaacctct aacctgtgag 420
cacgagatga ttccagaaca aactctgtct cccatgtggc atgaccagcc ttgggtctct 480
taaacttttt ctccactata atgccatggt ctttatgcag caggcaggaa gaattcaggt 540
ggttataatt ccgtatgtgc tttttgaaca tttttctact gggctattgc tctcttcata 600
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agagaaaaac tatagaccac tcatgatggt tgttatatgt gcttggctgg gccatgggtc 720
ccagtgtttg gtgaaacaca gcagcagatg tccctgtgag tagatgttgc tttgaaggta 780
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attcaactaa acttgaatgg gatattatca aacttaaaaa aaaattatca actgatcgtg 1260
taatcagttt catcttttaa gacaggaaat gaaataaagt atttacagat gaatgtaaaa 1320
aaaaaaaaaa aaaaa 1335

<210> 175
<211> 563
<212> DNA
<213> Homo sapiens

<400> 175
ggcacgagga aagatttaat aatcctgcct cttttgaagc ctgaaactta caatttaaag 60
cctgaaatct accataagga acttggtaaa ttgtgtcaga taccatgaaa atgcatcttt 120
tcatagttaa ccacagattg tttatgtaaa ggcaaattgg tggtcaggtt caaggtaaaa 180
tggattattg ggttgattag tagccaaaaa ctaaatgcat gttcaggtca aaatgaattt 240
gtttgtttta gttggtgcca tttcctttat attcagaact acagagtgtg catttattaa 300
taggatgaaa gctcatgctg aggattgaat agggtggatg tatatatttt ataaactcaa 360
gttgcaaaat atgtaaagtc actacttttt aaatagaata taaatgttaa aacagacaaa 420
tctatgttat atatttttta atacatgtat cagacttgtt agttgaatgc agattacttt 480
gctttatgga atttcataac ttttaataat aaagcagttg ttattggaaa aaaaaaaaaa 540
aaaaaaaaaa aaaaaaaaaa aaa 563

<210> 176
<211> 2418
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (138)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (171)
<223> n equals a,t,g, or c

<400> 176
gctcgtgccg ctgttgaccc cactgagcag tgctaagtgt tggtttagtg gatgttcgtg 60
gaattgctga cccatccaag ggcgtccttt ggagccagtg gagcctgccg gcgcatctra 120
ggggcagaat gctgctanca cttgaatctg ggatctcgcc ttattctcaa ntagcaaggc 180
atctcgacaa gcatggtcta rgtctggtgg ccagcttgcc artacctgag ccggtcgggt 240

catctgcctc tgagggaccg tcctcaccga gctcctgcat cccttgagtg ttgatcagga 300
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aaaaaaaaaa aactcgag 2418

<210> 177
<211> 1308
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1291)
<223> n equals a,t,g, or c

<400> 177
cccacgcgtc cgcccacgcg tccgcactcg cgctcggctc accatgtgtc actctcgcag 60
ctgccacccg accatgacca tcctgcaggc cccgaccccg gccccctcca ccatcccggg 120
accccggcgg ggctccggtc ctgagatctt caccttcgac cctctcccgg agcccgcagc 180
ggcccctgcc gggcgcccca gcgcctctcg cgggcaccga aagcgcagcg cagggttctc 240
taccctcgag tggtccggcg ccagctgcca gtcgaggaac cgaacccagc caaaaggctt 300
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cccgtcctcg agccctttaa tctgacttcg gagccctcgg actacgctct ggacctcagc 480
actttcctcc agcaacaccc ggccgccttc taactgtgac tccccgcact ccccaaaaag 540
aatccgaaaa accacaaaga aacaccaggc gtacctggtg cgcgagagcg tatccccaac 600
tgggacttcc gaggcaactt gaactcagaa cactacagcg gagacgccac ccggtgcttg 660
aggcgggacc gaggcgcaca gagaccgagg cgcatagaga ccgaggcaca gcccagctgg 720

ggctaggccc ggtgggaagg agagcgtcgt taatttattt cttattgctc ctaattaata 780
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tgagctttgt gggactggtg gaagcaggac acctggaact gcggcaaagt aggagaagaa 960
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aaaaaaaaaa aaaacycggg gggggcccgg nacccaaatc cccccaaa 1308

<210> 178
<211> 1009
<212> DNA
<213> Homo sapiens

<400> 178
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ataaataggt gaggggatat acaaactaaa actatcactt ctctcctcca cctgtcattt 120
cagtttttct tctcgattaa tggctttatt gttacatttg actggtttaa aatgttgggg 180
tcatctctgg cttctttgta ttactgtgca cactcaggta gagcctgtat gttcatttcc 240
ctttgacatg ttcttctagt ctattcctcc tccgacttct ctaattgagt ctcctttgtc 300
agactactgt gataacttct taatggggtt cactggcccc cacctcacct tctgtttttc 360
aaatctcacc agttatagga cacttctgaa catgtcacac tcagaattgt tgatgtcttt 420
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accgcatcta tgagtctaag tcctatctta tctattgcac aaatatatca tgcctactat 660
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tggcttgagg ccggaagacg gaggttgcag tggggcgaga ttgcaccact gcactccaac 960
ctgggcaaca agagcaaaac tctgtctcaa aaaaaaaaaa aaaaaaaaa 1009

<210> 179
<211> 561
<212> DNA
<213> Homo sapiens

<400> 179
cgaagctcga aattaaccct cactaaaagg gaacaaaagc tggagctcca ccgcggtggc 60
ggccgctcta gaactagtgg atcccccggg ctgcaggaat tcggcacgag acctcctgag 120
tttccatgct cctttctgta ccaggtttaa atgtagtctt ctggagaagt atttttgaca 180
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ttctctggcc aggcctccag tggaagtgca caggcactcc caatgttgtt aatgctctgt 300
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tccttgacgt ggtgcaattt tgatgagatg tctctggggg acacgaggat gccctaatga 480
tgctgacttg tcatggttgc agcatttgaa cttttggtgt taaaaaaaaa aaaaaaaaaa 540
aaaaaaaaaa aaaaaaaaaa a 561

<210> 180
<211> 1718
<212> DNA
<213> Homo sapiens

<400> 180
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ttgcatattt acaatgtgtg gaacattata aggatttaca gtagaagcca aatttcccag 120
cccttaaaat tttaatagga aaaatcgaat aaaccataca tatttttgaa aatgagcatt 180

agaaacacac agatgattat aattctatag actaatacag gtgaatgctg tatggaatag 240
aacagctggg agaggtaaaa gagtggataa gagagtcatc agagtgtgaa aaaactacag 300
ctgggggta ttgaataaag agacaatatt gaaaatattt ttaaacggta aaatgtcccg 360
gtaaaagcat agcttttccc ccttatgcaa aacttgtgag gtaagaattt tttccccacc 420
ccgttttctg ctcttctggc caaccatttg gggggacttc cctgtcccag gtgactctct 480
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cttgaggagc tgtctggggc agacaggtct ttgctttcct cagatagttc caattgtcat 780
ccttgaccat gaacaatgcc attgttattc caaactcact tcttctaata cttcaatatg 840
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caatgtttac caaatagttt tgctgagaat ttcattactg attttatgac agtaagatca 1680
tcaaattctt ctaagtgtcc attgagacgg acgcgtgg 1718

<210> 181
<211> 422
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (407)
<223> n equals a,t,g, or c

<400> 181
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ggttgcagga aaagcctgga cttcaccact tcgcaatata tccgtgtaac aaaactgcac 120
ttgtacgcct tatatttata caaatttaat tttttaaaag ggaagagaga atcatattaa 180
tttctcacca ctttttaagt aagcaaacag cagtatttcc cagaggcaag aggttcagca 240
agaagtcagg aaatgttttt gtagataagc atctatcatt ctgatgggcc atgactagtg 300
tgttcacttg taattccttt gcctttaaaa aaagagaatg atatcaaaaa ataagtgcct 360
tatactgtga aacgataaaa ggacttcctg attctaaaaa aaaaaanaaa aaaaaaaaaa 420
aa 422

<210> 182
<211> 2234
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (2157)
<223> n equals a,t,g, or c

<400> 182
cccacgcgtc cggctaaagt ggtattgatt ttaaacttga ctcaccaact tcacaggggt 60
taatacagat gtgaaaaatc ttgagttata agcttcctgc atgcatgaga cttgttttta 120
ttttgctgct ctagtgttat tggttttatt acgcaaggag aaagaaggca gggaatttat 180

ggtcaggaga ttcctggtca ggaggttcat agtcagaaga tctagactgg gtcacaagaa 240
atgacagaat ttaagcattt gagccaggga ataagaatgt gtgtgctctg cctgtgtttt 300
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gaaacattgg attccaaagc tgttaatggt ttattttcca tttcttgcct tcgcaatatc 420
tgaaataaag ttatatccca gataactgat gggaaaacag ggttcaaagc tataggatat 480
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tgccattatt atcactggtg agtaaagatc atggtgaatc attgtctaat atcttgtgat 1860
cttgctcaca tataaaaatt gccaggggac ttcattaatt atgattgcat cttaagggct 1920
ctggacattt tcatgagtgc cacaggacac ctagaaaata attgcatctt ttgagaacca 1980
tgtgccagtg acaaggtaaa gctcaggttg tatattccag agattctctg gcaaatgagc 2040
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ttgcatgctg catgattaga aagatagata acaatatatt ttaaagaatt atttgtncct 2160
cacacatgcc caacaagatt gaatgatttt aattgaattg aatattggta aatttgctag 2220
aaaaaaaaaa aaaa 2234

<210> 183
<211> 307
<212> DNA
<213> Homo sapiens

<400> 183
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gaatcctggt ctaaggtatt aggttttaat ttgctagaca aagagaactc aagcagtgct 120
gtctaggagt gttatgtaag ctagattgga ctttagagtc cggagaccat gcgggaagat 180
actgtgtgat aagggcctga aacatgttgg ttacagtgag actagaaatg ggataaatcc 240
agagctgttt caccagtaga cttgcctgaa tatcctgtct gactgagtat ggatcaaaaa 300
aaaaaaa 307

<210> 184
<211> 1758
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1720)
<223> n equals a,t,g, or c

<400> 184
tgtcccggcc tgaggtgtcg gccggatccc tccttctccc ggcgcctcaa gcggaagacc 60

attcctcaag aattttgtat ccaaggccca aaagtttgtt acccaagatg atgaatgctg 120
acatggatga tctctctgca agagtagatg cagttaagga agaaaatctg aagctaaaat 180
cagaaaacca agttcttgga caatatatag aaaatctcat gtcagcttct agtgtttttc 240
aaacaactga cacaaaaagc aaaagaaagt aagggattga cacccttctg ttttatggaa 300
ttgctgctga tcatttttc tttaaaactt ggatagattc caaaagttac agtacctttg 360
tggcttcatt gaatatttat gaagataatg tcagatgtag acaaaaataa cacaataaca 420
ggagacttcc ataagtttgt gtattatgtt agtctatgaa aacgtgcaaa tgtattgtag 480
agactttatg attagaattg catatattta tgaaacttaa agatgaatgt tttattgaat 540
ttgtaggttt agcactgtct tttattatag gattagtaag atatacaaga aaataaccac 600
cgtgttgtga aaaagtgacc aaaatcatgt actaaatgca cagctttatg taccctgtcc 660
accatcttgt gcctcttctc catttgcctc ttccttccta tttcccttcc gctaaggaaa 720
aaaattggtg tcacatttgt aaaagtaatt ttaatagtta atcatctctg agagtaacct 780
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gtaaacagta gtaaccaaat attttcactc cagatttgtg ttttctctgg cacagagtag 1140
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cttctgcaaa attccgtaat ggtgtattag tattagaata gtgaataaaa tgggaaagtt 1320
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aatcttatgt attggtgtaa gagttgatga atgactttag ctgtgtgaat atataatagt 1620
caaactgcaa acattttgca tccctttttgt gacctaattt acagacattt aaattgtgtt 1680
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aawaaaaggg cggccgct 1758

<210> 185
<211> 1056
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (13)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (15)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (34)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (46)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (131)
<223> n equals a,t,g, or c

<220>

Top Secret 20050930

<221> SITE
<222> (1015)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1035)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1052)
<223> n equals a,t,g, or c

<400> 185
cctcgtttta gtnanccgtc aagatcgcct gaanacgcca tccacncttg ttttgacctc 60
catagaagac accgggaccg atccagcctc cggactctag cctaggcttt tgcaaaaagc 120
tatttaggtg ncactataga aggtacgcct gcaggtaccg gtccggaatt cccgggcaaa 180
ttacgttgat tattattttt atttttgta tagcttacca cttacgtgta tatctctaaa 240
aaatacctt gcatgcttga actttacata aatgtcttac tatatgcatt tttccacaac 300
ttcctatatt cattcagtag tatgtttttc agtttcattc atgatgttgc actgaagatt 360
atatattttc actcccgtaa atttgattat ccaaaagagt tcatgtaaga ttggaatgct 420
cacttctttg aatgtttgac agaactcagt taaattacct gggattggtg tcttccttat 480
ggaaatattt gaattatcaa tctcacaccc tcaatgattt taggactagt attattttcg 540
gtttcttgtt gagttcattt tgttattgca tttaattttc taagaatttg tctatattca 600
ctgaatttta aaaaatcatt gcttgcattt tataatattc tctacctttg aaaatataaa 660
tgctgcattt gtctttattg ctcctttcta ttcttcatat tattaatttt taaattaata 720
ttttaattaa ttgaagcctt ctytatataa cttagctgaa attcttgtac ctttgcttcc 780
tattcactaa ttccactata atgtttattg tttgcttctt tcttgtgtaa aattttgtga 840
atcttgtttt tttttataat ttcctaattt ggttctaaac tattaaattt aagtctttcc 900
tattttctaa taaaattttt ttgaaagcgr aaaaaaaaaa aaaaaaaaaa aaaaaaaagg 960
gcggccgctc tagaggatcc ctcgaggggc ccaagcttac gcgtgcatgc gacgncatag 1020
ctctctccct atagngagtc gcattataag cnagct 1056

<210> 186
<211> 470
<212> DNA
<213> Homo sapiens

<400> 186
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aacatacaaa tgagaggaga gtgtaatgac ttacacatac aatatatgtt catttcatgg 120
ttcatcttgt ttcgtctata tccccttttcc tcccccttct tctcccagaa tgttttgaag 180
caaatctcag acatcttatc accttattat ttcatccaaa agtattttag tatccctgaa 240
agatacagct cttcaaaaaa gaaaactaca ataccattat cacacctgaa aagttaattc 300
atcagctatc cagcattcaa gttaccttgg ttgtcttata aacattttgt tttgttttac 360
agtatgttta tttggatgag atttaagaca aagacaatac actacaaata gatgtcaaaa 420
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gggcggccgc tttagaggat 470

<210> 187
<211> 932
<212> DNA
<213> Homo sapiens

<400> 187
ttgcaaaaag ctatttaagg tgccactata gaagggtacg cctgcgaggt accgggtccg 60
gwaattcccg ggtcgaccca cgcgtccgag agacatccat atttccagtg tctctctcat 120
gtttaagctt ttttcggaat caagcccaca ttcttcagca cggcattgaa gactcaggag 180
ccctcccagt ctggccccat gcacagatgg aaggctttct ttcctggtcc ttatccttct 240
ctgcacaata ctccagtcac accacaccat ggactgctct ctgaccctca tggcattcca 300
gtggcgttat gctctcatac agccttcctc atttgcccac cttgcttgtc tctgactcat 360

attctattcc aaggctaagc tcaaatgtca tcatatctct caaactgtcc ctcacactcc 420
cgcccccaca tgatttagtt gtattctgcc ttttgttcca caggtctttg tacatcatgg 480
tattatggtg tttaagtctg tacatatgta tttgtattgc catccccaac ccaggctcca 540
agccttctga aggtagaaaa ctgtatcaca taaatgaaga atgaatgaat gaatgaatga 600
gtaaatattt agcctatctg tctgaactgc ctgctctgtc ttagccattg gaaacatgct 660
tagaactaaa tcattttcta agaaacaata gtcttcctta gtattaattt tatattattt 720
ttctctcttc tctccaagcc cttatcactt ggattcttgc tattttactt ttgctttaag 780
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aaaaaaaaaa aaaaaaaaaa aagggcggcc gc 932

<210> 188
<211> 1953
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (500)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (742)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (946)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1028)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1038)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1229)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1251)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1264)
<223> n equals a,t,g, or c

<400> 188
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ggggtctccc gcgaggagtg agctgttgcc gcakaatggg ctgctggctc ctgccctgct 120
tcctgtgatc gagccggccc tgaggactct gtggagatgc ctgtaaccca ccggaaatca 180
gacgcatctg acatgaactc agacacgtcc cccagctgca ggctccgagc cttcagcaga 240

ggcggcagct ggagagtcga agcagcagct ctcgctccag aagcttcact ttggatgatg 300
agagcctgaa gtacctcacc catgaggaaa aggatgtgct cctgtttttt gaagagacga 360
ttgactccct agacgaggac tttgaggagc cagtgctgtg cgatggagga gtgtgctgcc 420
tctgctcccc gtctctggag gagagcacct ccagtccctc cgagcctgaa gatgtcatcg 480
acttagtgca gccagcaccn tggcgccggg gaarccgagg gccttccaga ggggacccag 540
gcagmagggc ctgcacctgc tgggaaggag cacaggaaac aagatgctga gactcctcca 600
cctccagacc ccccggctcc cgagaccctt cttgcgccac cacccctgcc tagcacccc 660
gatcccccca ggagggactg cgcgcccccc ccccgccggt ggagcacccc agactcctgc 720
gctctgttcc cacgcccctc gntatggcgc agaagatttc cgagaggatg gcggggaacg 780
aagccctctc gcccacctcc ccgttcaggg agggccggcc cggggagtgg aggacacctg 840
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aggcaccccg cttccccagc aacatcatcg tcaccaacgg cgcggnccgg gagccccgca 960
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gcggctcctc cccggagcgg gtggcgcgtg gccggggcct gccgggcccc gctgagagtc 1140
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ggtctgatta tcattcttga gtctcatcta ccctcttctc gaagtacatg acatgaaagt 1860
tcagatccct tccactcagg attctcgccg ccttttctaa gaaaataata aaaaaaaatg 1920
cttgtttcaa aaaaaaaaaa aaaaaaactc gag 1953

<210> 189
<211> 1008
<212> DNA
<213> Homo sapiens

<400> 189
ggcacgagtg tcggtcccct ccctgagcca gcatctccat ccaccacccc gtgccagctc 60
ccgtgccagc cttcattcct cccagtgtcc aagcccctcc aggagggtcc tggggtgggc 120
cagatgcctg cccacctctg tctcctgcct ctgctcctct gcccttctta tagccagaac 180
ttgtatcttc tcagcaacct tcactttgtc cttgtccctt taccattccc catcaaagag 240
tagtctgcta tatcaatttg tgtagatatg tctgtctttt tgggtcctca gagaaaatgc 300
ccattttctc ggagaattct ctgcactcct ctctgcttca cattcaactt ccctgttctc 360
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ttaatggagg ctgggtggac cactgcccgt ccactcttca acaggaggaa cagcatgcca 480
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taggatacca atgagtaaaa gggttcctgt tcactctgac tctgtgcaaa ttgtattaca 720
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tcttatcccc catacttgtg agttcttggg gttgctcaca aatactaggg gtttttgttg 900
tatttttaac aaatatatcc taatgtcata tttattctct tttgtaactg ctgtctttac 960
aataaagaaa tcatctgcct ttctatctta aaaaaaaaaa aaaaaaaa 1008

<210> 190
<211> 421
<212> DNA
<213> Homo sapiens

<400> 190
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cgtgtgcttg aggccgaaac ccagatcctc accgactggc aggataagaa aggtgacaga 120
cgattcctga agctgggtcg agaccatgaa cttggagctc cccccaaaca tgggaagccc 180
aagaagcaga aactggaagg gaaggcagga catgggccgg gccctggccc aggacggccc 240
aaatccaaaa accttcagcc caagatccag gaatatgaat tcactgatga ccctatcgac 300
gtgccacgga tccccaaaaa tgatgccccc aacaggttct gggctagaga acatagaagg 360
gggcctcaaa gttctggtgg tggaggcact ggtggggcaa gggcgcccac tcaggatttg 420
g 421

<210> 191
<211> 1086
<212> DNA
<213> Homo sapiens

<400> 191
ggcacgaggt gggatttgct ttcatgtcct gtttcaaaaa ccaagtgtct cttgacagcc 60
cactggttct tcctgtcctc ttgctctagt ctgtatcaga aagcagaatg actgtacttt 120
tgttttacaa acaaccacct gataggacgg acactccacg agataaggaa aggcacgtgc 180
ccttgagctt gaatggaagc agcctctgga gggggcagcc actgcccttc gagggagagc 240
agctcttcag cagtggccag agtgccacgt gactctgcag atgacccctg ggagccgggt 300
gatgggcacc tgctggggct tttgtttttt ctttttcact ggctggcttg atcctcagtg 360
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cctcagggct gggttcagag ctcctcccgc aggggagcct cagaagtgga ggcagctgct 480
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aatctgtaag aaaacctgtt gagattcttc actatgaatt atgacttcta caacatgtat 780
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agttctgtac gcgttaccaa cagcgtcttt attaaccctc ttccacatcc agtggaaatc 900
attgctaggc ggtatttgtt ggttggctgt tagctttgct ttatgatttc atgtttcttt 960
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1080
aaaaaa 1086

<210> 192
<211> 1038
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (142)
<223> n equals a,t,g, or c

<400> 192
ccacgcgtcc gcttactcaa ttttctacaa gttcatccat aaaatctgcc tttatttaca 60
taaaattata taaaatattt gaattaaaag agatcataaa taattctatt ttttcccagt 120
tcatgtggca ttttagacat antcaaaatt tgtagcgtta ttttttttc ttttccaaat 180
ctttaaaaag catctataac ccactgaata agatgggtta gaagatgaag ctgctgagaa 240
gtgctgcaaa gctgatggta ttgatatcaa cacaaacatc atatgctttt ggggaacagt 300
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tttaaaattc tcttttaatc tattacttcc ctattggtga atgatacaaa ttagtttctt 420
gacctctgtt cagatactgg gttacataca atttttggcc atttaagtat actgtaaatc 480
cctccagaaa actttcttat attgtcttgt gcttcacagc tagttttcag gcatatgtac 540
tgcttacaaa ttagtttggt atttaaaaag gagttgtggc ttgagttaca aagatttaaa 600
gttaaagcaa tgctcttaat aatttctatt ttctcactga atcaattcac actagacacc 660
cctttaactt ccatatacat gatcactcac cttctgtcca aaaatctatt ttaggaaaga 720
gcagaagtac aagaggacct tgtaaacaat actactaata ttagtaggaa tacggcaagg 780
tttaagagtg acaactttag cttcactact ttcaagctgc ttactagctg ggacaagttg 840
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gacatacaaa tggccaacaa gcacatgaaa agatgctcaa tatagttaac cattagggaa 960

atataaataa aaaacacaat ttcaaccaca atagtactac atacacatta gaataattat 1020
gttaaaaaaa aaaaaaaa 1038

<210> 193
<211> 765
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (757)
<223> n equals a,t,g, or c

<400> 193
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ctgcggagca cctggaggca caggcccaga actcccrgct gtggcgggcg cacgaggcgc 120
tgcgaacgca gctggagggg gcgcaggagc agatccgcag gctggagagc gaagsacgag 180
gccgccagga gcaaacccaa cgagacgtgg tcgccgtctc caggaacatg cagaaagaga 240
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<210> 194
<211> 668
<212> DNA
<213> Homo sapiens

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<222> (11)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (13)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (19)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (23)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (35)
<223> n equals a,t,g, or c

<400> 194
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tgcccgcagt ggcccactgg ccatggtggg ctcagcaatg atgggggggca tcctgttggc 180
cctcattgag ggcgttggca tcctcctcac tcgctacaca gcccagcagt tccgaaatgc 240
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gccctgacag atgggtcccc tttttctctc tcagggcacc ccagccccac actcacatgt 540
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taaggggg 668

<210> 195
<211> 893
<212> DNA
<213> Homo sapiens

<400> 195
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gcttttgttt gatttgcggc gttcctgtct tctgtaaagc tagtgagttg tcccaagaga 180
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agaactcccc agatattcac actataggat ctgaattccg agattctaaa atatcttaaa 540
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gcatttgtgg ctgtagaatc cgtgaccgta atgttatatg taatgggaac tatcttataa 840
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<210> 196
<211> 519
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (492)
<223> n equals a,t,g, or c

<400> 196
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ggggcctcca ggacccacca gccctatgag gaaagagttc ttcctgatcc tacccccttga 120
cttccttttc tttctcctgc aggtctcaga acggccccga agcctccccc tatcccctga 180
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gggggcccg anacccaatt cgaagttgcg agtgggctc 519

<210> 197
<211> 453
<212> DNA
<213> Homo sapiens

<400> 197
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cagctcaggt ctgtctacac ccagatggta gcgcttgtga cactggcctg gcagtcctgc 120
tcacagtgtt ctgtgcctgt gtgctcccac cctttcctcc tgctgctgca gaaacccggc 180
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gcctggagcc acctgccctt tggcaacaaa accaaacctt tttgtgggcg ttcaagatgg 300
tattgtgccc accagtcaga tcctgtgttt tgagtcccaa aggccatgcc aaggattggc 360
tttgggaggc tttaatcacc aacccatcaa catcaagcct cccccaggcc ggttcaaata 420
aatgtattta aataaaaaaa aaaaaaaaaa aaa 453

<210> 198
<211> 415
<212> DNA
<213> Homo sapiens

<400> 198
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gactctcagg tgcagctttg ccaaaaagga acttttcatg tcatgcagtt gaggggactt 180
agtctcaatc ccaggctcct cttgactctg ggcagcctct gtcttgggag ctcagcccca 240
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tgatgaggac caggcccccc gcaccgctgt cagcctgagg aattaaagct ttggtgctgg 360
gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa 415

<210> 199
<211> 674
<212> DNA
<213> Homo sapiens

<400> 199
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aagcattttg ctcatattac cctgtaaggt caataattat tatccccatt ttgctgtaga 180
gaaaactgag tattctgata caactttaac tttcctgggg tcaaaaaaat tatcagtatc 240
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aaaaaaaaaa aaaa 674

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<211> 1246
<212> DNA
<213> Homo sapiens

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aaacgtgaag cccactgatg acactgcctg gcagagctgc ctccggtcag cagtgaccct 480
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<210> 201
<211> 1510
<212> DNA
<213> Homo sapiens

<400> 201
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ttatacatca catgaggctg caggccaaag ctttgcaact tatagtaaca gcacgaacta 180
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tttgttcaaa tcttgtcttt tctacttact agttgtttgg ttatgaacct ttctgtacct 660
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aaaaaaaaaa 1510

<210> 202
<211> 1259
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (18)
<223> n equals a,t,g, or c

<400> 202
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gggctgcagg aattcggcac gagtccacac agggcctggt gttctacccc atctggcccc 120
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<210> 203
<211> 2101
<212> DNA
<213> Homo sapiens

<400> 203
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a 2101

<210> 204
<211> 725
<212> DNA
<213> Homo sapiens

<400> 204
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aaatg 725

<210> 205
<211> 926
<212> DNA
<213> Homo sapiens

<400> 205
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aagtaaagaa aaaaaaaaaa aaaaaa 926

<210> 206
<211> 1248
<212> DNA
<213> Homo sapiens

<400> 206
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<210> 207
<211> 824
<212> DNA
<213> Homo sapiens

<400> 207
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aaccagggag gcggagattg cagtgagcca ggattgcact actgcactcc agcctgggca 780
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<210> 208
<211> 2206
<212> DNA
<213> Homo sapiens

<400> 208
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cctctgtcgc gtattctgat ggtgcctgct ggtttgacgt ggagctatcc tgtgaaataa 2160
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<210> 209
<211> 1421
<212> DNA
<213> Homo sapiens

<400> 209
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cagaaattta tttctcacgg ttctggtggc taagaagtct gagatcaagg ccccaataaa 180
ttaggcctct gatgagggcc tgtttcgtga ttcgtagatg gtaccatctt gctatgttct 240
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attaatgagg accccaccct tatggaccta atcactcccc agccacgcct cccaatasgw 360
tcacattggt aattaggttt caacatatga attttgtgga gagacaagca ttcggaccat 420
aacaacaaca ttcttaaaac taccattgta ggccaggggc agtggctcac aactgtaatc 480
ccagcacttt gggagcctga ggtgagagaa ttgcttgagc ccagsakttc aaracctgcc 540
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaatcc g 1421

<210> 210
<211> 630
<212> DNA
<213> Homo sapiens

<400> 210
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ccttgctctt cctcctaatc tgataaagaa tgtttcagac ctgtgatttc cccagattgg 180
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ctatttgggt taaaaaaaaa aaaaaaaaaa 630

<210> 211
<211> 1408
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1401)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1402)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1403)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1405)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1407)
<223> n equals a,t,g, or c

<400> 211
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catgtcagtg tcattgaata tgaatgaaaa agttactaga ttccataatg ctttcctttt 180
tccaaatcat tggtattcgt gattccctta attatgatcc tttgtgttgt agatatttca 240
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ccccggcaaa agccatttca gtcaggttct acaccgttgc atctcactca cagattcatg 420
gtgtggaact ctattggaat tattcgctgc tataatgatg agcaagacaa tgccatagat 480
gtggagttcc atgatacctc catacaccat gcaacacact tatcaaacac tttgaattat 540
acaatagcag atctttccca cgaagctatt ttgttggcat gtgaaagcac tgatgaacta 600
gcaaggtaaa ctcaagatta ttaggaagaa tttggcactg ttgaactgtt agatacagtt 660
gttgaaatta aagacaaaaa gttaataaaa caaaatttat tttttgtaat atgaaatttc 720
agaagagttt ggtacaaaca ccagcacacc caaaatacct cagaacatat gtctgttttt 780
gccataatga ttccctcatt acatgctcta actacatagc aaaatgacat ggcatagtta 840
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tcgagaaagg aaaaaaaaaa nnnanana 1408

<210> 212
<211> 785
<212> DNA

<213> Homo sapiens

<400> 212
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caagcagcac ccagcctgcc ctgccaaagg ccagagccgt ggctcccaaa cccagcagcc 180
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aacctgccct cgggaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 780
aaaaa 785

<210> 213
<211> 1767
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (183)
<223> n equals a,t,g, or c

<400> 213
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actcgagggg gggcccggta cccaatc 1767

<210> 214

<211> 781
<212> DNA
<213> Homo sapiens

<400> 214
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caggaaaagt ttgcataaat agccctggga gcagctgaga aagaggaaat gaaatgacat 180
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agctactcag gaggctgagg caggagaatc acttgaacct gagaggtgga ggttgagtga 720
gccgagttca tgcagcctgg gtgacagaat aaggctccat ctcaaaaaaa aaaaaaaaaa 780
a 781

<210> 215
<211> 2115
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1310)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1351)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1861)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2091)
<223> n equals a,t,g, or c

<400> 215
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acattatttt agtttttgt tcatatgtac tcagggctca cactttgctt ggctccgtaa 180
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tgacagaaag gttaaggttc ctggaatctg tctctaaaty ctccgtaccc cctcattagg 480
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tcatggcaca actttcaaaa gcaaattaat tataaactgg ttgcaattta attcagtttg 660
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tgcaagtagc aacaaattac tttctattta actcttgact gtttactagg gggagctttg 2040
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gccttatgat gaaac 2115

<210> 216
<211> 1148
<212> DNA
<213> Homo sapiens

<400> 216
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tctaggaata gaattttggg tcatatggta agtatgtgtt tataagaaac tgatgttatt 180
ttttaaattg gctatataat ttttcagttg gctttatatt tctactagga gtgttccaga 240
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<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<211> 1014
<212> DNA
<213> Homo sapiens

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<211> 743
<212> DNA
<213> Homo sapiens

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ctgctgtttc tgctgggacg tctgactcca gttccttctc ccctctccag tgacaaggtc 660
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aaaaaaaaaa aaaaaaaaaa aaa 743

<210> 223
<211> 1118
<212> DNA
<213> Homo sapiens

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<211> 1485
<212> DNA
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<211> 1249
<212> DNA
<213> Homo sapiens

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<211> 2082
<212> DNA
<213> Homo sapiens

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Page 135 of 5005960

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gctcctttga acagcccttc cgtgctccct atcatggatc aagagctgga atagctactc 1920
aatttagcac tgccaatgga caggtgaacc ttcggggacc agggacaagt gctgaatttt 1980
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ccacaactgg ccagactttt ggctaaaaaa aaaaaaaaaa aa 2082

<210> 227
<211> 2294
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (2287)
<223> n equals a,t,g, or c

<400> 227
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ttagagctga tgaagaaagc agcttccaag ggattgcatc aggcagtcaa tggcctggga 180
tggtattacc acaaattcaa gaaaaattac gccaaagcag caaagtactg gttaaaagca 240
gaagaaatgg ggaacccaga tgcgtcatac aatcttggag tcctgcattt ggatggcatc 300
ttccctggag ttcctggaag gaatcaaact ttagctggtg aatatttcca taaggctgcg 360
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gagacattcc ctagagatcc tgagaaagct gttgtatggg caaaacatgt agctgagaaa 480
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aatttagcac acatctgtga ggagaggcca gacctggcca ggagatactt gggtgttaac 660
tgtgtttgga gatactataa tttctctgtt tttcaaatcg atgctccttc ctttgcatat 720
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tctgtgcaga tgtacgccca agccgccctg gatggagact cccagggatt ttttaacctg 840
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aattgcaatc catgaaatta catttagaag attcttagta cttaactgta gtcttctcca 1980
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ctaaggtagt gaataaatca gtaatgcaat attgtgggtc caaactactc tttgcactac 2220
tttatttaca gtagtaaata aaattatttt tatacaattg aaaaaaaaaa aaaaactcga 2280

Page 136 of 180 09/950,988

gggggggnccc gaaa 2294

<210> 228
<211> 1255
<212> DNA
<213> Homo sapiens

<400> 228
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atatgtgtat ctgtgtatcc tatggaaatg cattttaaa ctaagaagtg aaccattcca 180
ccagaacctt tgattctgca caagatttcc ttgctctggg aacaaccccc aaatgccctt 240
gggaggaaca acatgagctc aggaagcctc tctttcttca cttaccatta ctaactctcc 300
aagcatagaa atccctggga attgcgagaa taactcccac tattttaaaa tttatattca 360
gatttgtttc gtttcataag acacatcaaa caggcctata caaaaggttt aggaaaagaa 420
aacaatggtg agtcccggcc ctcttcgaat tcactggcac ctcatgcaag tgtaggaagg 480
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tgttttgagt ttagctgaca ttaaagaaaa aagttcatca cgtgactgtt aatgtaaacc 1200
tggttattaa aataactatg aaattacaaa aaaaaaaaaa aaaaaaaaac tcgag 1255

<210> 229
<211> 895
<212> DNA
<213> Homo sapiens

<400> 229
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aaatacgtcc gggagatctt tttcagctag ggcataaact gtgcactgaa ctgtctgccg 120
agagcagctg gaggacagct gagcttccac tggtgctgct gggccgcccg cctgtgggaa 180
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gctctggagt cccaattgtc tgtgttagtc agtgaccagg ttccagggaa aatgatgtca 420
tgtggtggtc caacttactg gaaccaaaga gacagtactt tgcaaagaaa aggatcactg 480
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ggacaagaga tcacaccaga gtacatgtct ctgcctctgt tttcagtgtg gctttggaca 840
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<210> 230
<211> 1208
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
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<222> (1166)
<223> n equals a,t,g, or c

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tggttgatgg tctacatgag atatgtcaag tgtttgtcaa tggatttggt ccatagtaaa 180
tgttcactaa gaggaagagg cagtatttag gaacatatat tctatgttaa acagcctagg 240
ttgaaatgtt gacttctctt atttgctatg cgatcccgtg caagttcctg aattttgctg 300
tgccttggtt ttgtkatata actcctggaa gtgtgacgat ggccacatga gttcatacat 360
gaaaacctct tagaaaatgc ytgggrcaca ttaaaaactc agtaactgtt agctactatt 420
accttcaaaa tataaccaag tgacaaaagg ggagtacaac taatcctcag raaatcagat 480
taatattctg gctttgcgac ctgtacaaag tacttaattt cccagtttag tgcctttgtc 540
tgtgaaatga tacgtaactt ttatggcwat tatgatgata aagtaagaaa tgcatgccaa 600
gtgcctaaca taaaatcaat gctaagaaat ggtagctatt attagtaata atgataaaga 660
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cgtattaa 1208

<210> 231
<211> 1165
<212> DNA
<213> Homo sapiens

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tggttgatgg tctacatgag atatgtcaag tgtttgtcaa tggatttggt ccatagtaaa 180
tgttcactaa gaggaagagg cagtatttag gaacatatat tctatgttaa acagcctagg 240
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gaaaacctct tagaaaatgc ytgggrcaca ttaaaaactc agtaactgtt agctactatt 420
accttcaaaa tataaccaag tgacaaaagg ggagtacaac taatcctcag raaatcagat 480
taatattctg gctttgcgac ctgtacaaag tacttaattt cccagtttag tgcctttgtc 540
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ttcagataag ctactaaagt cttggtttcc tcatctgtga aacagggatg taaaaattaa 1020
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<210> 232
<211> 1021
<212> DNA
<213> Homo sapiens

<220>
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<222> (977)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (998)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1001)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1015)
<223> n equals a,t,g, or c

<400> 232
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tgcaggataa ttacctgcag ttgaaggaaa atgaatagcg tcagatgtgg ttaattcacg 120
catggtttac ccttctatct ctctatcaga aaagatttaa agtggtaacc aatctgaatg 180
atatgcaaaa ttgcattggt ttgctaagta gaagtatttt ttttatttgc atcacaaata 240
gagttctcag atttggactg actagatttg aatataattt ccagaacaat agctgtgatt 300
cactgactta actcatatgt tatctcttcc agaagtgccc atttttcaaa tcagtgcaaa 360
agaagctatc ttcatgggcc ccatgttagc ctgagtatag tttccttttat gaggataatt 420
caatgagaat gataattatt tcctatatca agatttgtgg gagatttacg gtaatgatca 480
cactacttgt tcccacattg tccctgaacc ttcatgatcc agtggcttcc aaaaactgaa 540
acaaacagct ggaacaaatt atggggcaat gaatggacat cagtggaaat ttccttgtga 600
cttttgtcaa gcaatagata gctgctaagg cctctttgaa ctcacaccta gtaattgaga 660
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cgtcgtgact gggaaaaccc tggcgttacc caacttaatc gccttgcagc acatcccccc 840
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acctgaatgg gcgaatggca aattgtaagc gttaatattt tgttaaaatt cgcgttaaaa 960
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t 1021

<210> 233
<211> 1661
<212> DNA
<213> Homo sapiens

<400> 233
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gagtatattc tcatgccttt ctttaaagga gaagcgccta tctaaacagt tacagaaacc 120
caaattcaaa gtagattaaa caagaagtaa atttgtaaac tcttttaact gggagacagg 180
aagtagggag ggctccaggc acaatatcat tagcagttca atgtgaacga agacccatgt 240
cctttccaag cctccctctg ccatcagcat tgccctcctt cccagggtca cagatggcta 300
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atctctatcc caagcttgga ttaaaaatta ttttcatttt tgtgttccag caaacttggg 420
tcctatgccc agccatggac caaaaatagg cttaatgtga atgttatgtg ctgattggat 480
taaaataagt tctgactctg aatctgggaa tgtggtcacc ttcctcagag acaagttgag 540
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cgggtatgtt gagtgtgtat atatttattt ttttgtgtgt ttatatggtg tgtgtgtgtg 780
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tcatataatg ttttatttat gtaattcagt tatttggaga tggtggtgag ggatgtgagt 1560
acatcatttc atgttgtatt tcaaatctct tttgacagaa accctaagaa tttgcaataa 1620
agaaaattca atgttcaaaa aaaaaaaaaa aaaaactcga g 1661

<210> 234
<211> 477
<212> DNA
<213> Homo sapiens

<400> 234
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ccttccctct tccctgagga acaaagcacg tatctttagt ctctttgata tttattctga 120
gaccaagggc ttgcttgacc tgatgatttt ccttcagctc tctgaaggtg ctttttccac 180
aatccaagtg attctgatac acactaaagt tgagaatcac tgcactagat cactttgtgt 240
tttctgattt tcaaggttga tacatagctt taatacagct cttctgttga cagttattac 300
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tgggtatgca aggaaaaaat atacttctgt ttacttactc tgactttgaa atagtgttat 420
ttttctatat ctgaaataaa tgcttctacc atagaaaaaa aaaaaaaaaa aaaaaaa 477

<210> 235
<211> 779
<212> DNA
<213> Homo sapiens

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<222> (766)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (767)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (773)
<223> n equals a,t,g, or c

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ccagccacca cataatgttt tataatctaa gacctctgca tcttacgtaa atttaagtga 120
aagtagtagg ttataaaaat aggaccttca ccaaccatca tttgatatca agtatatcaa 180
atgctttcag tagcaactaa cagaatatac aattcaaact gatttttaca ataaggggga 240
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tatgtttttt ggattaaatg cttcaaatag cattttctcc cccaaaccac ctgctccttc 360
taattgatgg atttctcaca tgagtcacag gcttgaaaca tcatgagcat ctttaacagt 420
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gcagtaactt atcaactagt tccctccccct tccagctttt cttgctaatt aatcttttca 600
aagcgtacat tgcagctggg catggtagct catgcctgta attccagcac tttgggaggc 660

cagggcggga ggatagctta aggaaaggag ttcaacacca gccttgcaca acatagcaag 720
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<210> 236
<211> 972
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (62)
<223> n equals a,t,g, or c

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antctaggag agagttgttg tttctatgcc aatcagtctg gggtcataaa ggatactctc 120
caaaaagttc gagaaaatct agatagacgc taacaggaat tggaaaataa cacccctggt 180
accaaaacat gtttaactgg aatctatggc taactactct aatcactgga ttggcgggac 240
cccttctcct cctcttgtta ggtttagtct tcgggccttg tatattaaat tggtttctta 300
aatttataaa gcagttcata gcttctgtca aacttacgta tcttaaaacc caatataact 360
cccttgttgt gactgaagaa tcaatgattt gattacccaa aacatgagtg gggaatgtga 420
tacctaccct gttttaacct gccccaagtt tacgtgtaca gtgggtcaga agggtgactt 480
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<210> 237
<211> 1885
<212> DNA
<213> Homo sapiens

<400> 237
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taagaactgc tggcaactgg ttagtgacca gtgttgaaat gggaaaatat tactggctta 240
tgcttttgct tatagatatt gaaatttaat aaaatttaac catagttaca tatgattcta 300
tgaaattagg taggctcttc aagaaaaatg tgagcaatgt aaggcagggt atttttggga 360
gggggggtgct ttattgtata ggcaagctct cgaacagtgt ctgataatta gtagtgtctg 420
acaatatttg ctgaatgagt gaactcatgg taacataact ccagtatggc agattgattc 480
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tcttcgacac aggagagagt ctgcactgca tcacagctga tccgaaagtt aaattcaatg 780
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aagtcttttg tatgttatgt tgctaagtta tttgggggaa agtgttaaaa taagtgctct 1740
tactttcttt ctccactgct tttgcacaaa aactttactg ttcaaagaat attgtccatt 1800
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aaaaaaaaaa aaaaaaaaac tcgag 1885

<210> 238
<211> 1251
<212> DNA
<213> Homo sapiens

<400> 238
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gtgaagatgg aaatgagggc tgtgttatgt atatctggta tctacttctg ttccaggtgc 180
ttaattcacc ctcatactga tgtttaaagt tagaggattc ttgtccattt gtcttgtctt 240
ctgttggcag gtcacatgca ggtaataggc tatgggaagg ggaagatgcc tagattactt 300
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accatcgttc tcaacttttc ttttttaaca taggctagct agctcccacc ttagccttct 420
agaccctcca ttataattct tattcaattg ccttggcctc ccaaagtgct ggaattacag 480
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tgtatacttg ggcaatttga gcagatatat acggtcccga gtttaaagaa gagaacaaac 780
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<210> 239
<211> 1252
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (243)
<223> n equals a,t,g, or c

<400> 239
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tggaaatgag ggctgtgtta tgtatatctg gtatctactt ctgttccagg tgcttaattc 180
accctcatac tgatgtttaa agttagagga ttcttgtcca tttgtcttgt cttctgttgg 240
canggtcaca tgcaggtaat aggctatggg aaggggaaga tgcctagatt acttctaggc 300
tggtctccaa gccccaagtt caagcctcct gagtagctga gactacaggc acacaccatc 360
gttctcaact tttctttttt aacataggct agctagctcc caccttagcc ttctagaccc 420
ctccattata attcttattc aattgccttg gcctcccaaa gtgctggaat tacaggtgtg 480
agccactgca cccagctatt ttttctatat ttttatgtag ttcattgagg gtaataattt 540
tatcctacaa caaacatgta agttattgaa gaatattgga gttttatgat aatgctgtca 600
taaatataaa aggtagggta agagggatcc aaatagagct cacttatatt gtcactgata 660
ggcagtcacg ctgtgctgat agaatgtggc ctgacacttg atggagtgca gcatatgtat 720

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tcatacaata aaatactact cagataaaaa agatgaactt aatctcataa acattatggg 1200
caacatagtg agaacccatc tcttttaaaa aaaaaaaaaa aaaaaactcg aa 1252

<210> 240
<211> 1256
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (22)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (26)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (34)
<223> n equals a,t,g, or c

<400> 240
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ctttcacctg agacacagga cattatgaat cctccttggt gtcttggcag atggtgctag 180
tggcataaac aaaaccaaat ggcctacagc tatacttaca atgagaatta wtcatattty 240
attcggtagc tgggactatg atgggcaagc atgccactca agcaagtgca tgccctctta 300
atacagccct cctcagtctt ggattcacaa tcttttacat ggatttctaa gttttcataa 360
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<210> 241
<211> 2858
<212> DNA
<213> Homo sapiens

<400> 241
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accccacgct cagctccgac tgggacggcg agcgcacgcg ccgcagtgtc tactccggat 120

caagcgggat atcatgtcca tttataagga gcctcctcca ggaatgttcg ttgtacctga 180
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aaaaaaaaaa aaaagggcgg ccgctcgcga tctagaac 2858

<210> 242
<211> 1363
<212> DNA
<213> Homo sapiens

<400> 242
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aacaatgaaa agcacttgat ttagtttagc catccatatg tggcttgtat tagctcaatt 180
agactcctgc cttttcgcaa ggacagcagt ctctctgtat cccatacaca agagaatgat 240
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ttccctgaga tggcaaacag gagggctgca ccaatcctat actgtcagca aaggtctgga 420
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atccttatat ctttcccctg ggtcagactg aattgaattc ctt 1363

<210> 243
<211> 724
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (506)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (512)
<223> n equals a,t,g, or c

<400> 243
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attggttttt gtcttgtgat atatgtcttt tcatgaggga taaattttat ttgcactcac 120
tgtttatgga gtatcgagta aaaactagaa caaagcagaa cgaaccttcc tatacaatgc 180
cttcccacaa aaacaaatac ctccctcaaa aaatttctgc tctgaacatg aaaatgctta 240
tctgcagctt gacattatta gtatgtctga gtcctagggt aggtaggaga tccaggtatt 300
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gaattgcttt aacctgggag gtggaggttg cagccagccg agattgcacc actgcacatg 660
agcccaggcg acagtgcaag actcagtctc aaaaaaaaaa aaaaaaaaaa aaaaaaaact 720
cgag 724

<210> 244
<211> 1099
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (900)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1060)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1062)
<223> n equals a,t,g, or c

<400> 244
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agcgttgtat gatttttctg tgtacacgcg ataagagcaa tattagttgc aaaaggaagt 120
tttcatcttt gaacattaaa ggtatccttt attgttgatc actatagcat gcaaaaaaga 180
aactatattt tctgtcctgt tctttgtatt actgttaaag agttggtaaa ctgccgtctt 240
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gactttggcc aatagtacct cgtcagtgta cagtactact atttagmctt actgatttgg 540
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tgcatattgg agtaatttag tcctgtatgc tttgtaaatg agtgcattct attgtcgaga 660
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<210> 245
<211> 1703
<212> DNA
<213> Homo sapiens

<400> 245
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acggcagaca ggtcctagtg cccatcagat acccgcggcc gggactcgga gctgtggggt 240
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<211> 1832
<212> DNA
<213> Homo sapiens

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<211> 1247
<212> DNA
<213> Homo sapiens

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<211> 621
<212> DNA
<213> Homo sapiens

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<220>
<221> SITE
<222> (54)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (451)
<223> n equals a,t,g, or c

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tatgttctgc tggcttagag c 621

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<211> 866
<212> DNA
<213> Homo sapiens

<400> 250
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<211> 3057
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<222> (3048)
<223> n equals a,t,g, or c

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<210> 252
<211> 5279
<212> DNA
<213> Homo sapiens

<220>
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<222> (1371)
<223> n equals a,t,g, or c

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<210> 259
<211> 711
<212> DNA
<213> Homo sapiens

<400> 259
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actcatcttt gaggaaatga gttggtagcc tctgtgcact gtttggtggc cacatcacag 180
gtgatgtcct gttcacatac ctgcttgtat ttaaagccct cagtctgtcc tgttgtgtgg 240
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gctgctgaca ttgttgtttt tatgttcatt tgctggagcg caagacgtgc tgacacagtg 600
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ataatattgg aaactaaaat aaaacctagt tggaaaaaaa aaaaaaaaaa a 711

<210> 260
<211> 1113
<212> DNA
<213> Homo sapiens

Top Secret - 2005650

<220>
<221> SITE
<222> (119)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (121)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1098)
<223> n equals a,t,g, or c

<400> 260
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tattatttca acaacccaga ggatggattt ttcaaaaaaa ctaaacggaa ggtagtgcca 480
ccttctccta tgactgatcc tactatgttg acagacatga tgaaagggaa tgtaacaaat 540
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aaaaaaaaaa aaaaaacncg agggggggcc cgg 1113

<210> 261
<211> 982
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (970)
<223> n equals a,t,g, or c

<400> 261
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atctgtgaac tttactatat atctgtttat tttacttttat ttttttttta aataaaaagg 180
gttttaaatg ctatgcagtc attagtagaa aatttttttag gactctgcct gctctgtaac 240
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aaggttcttc attgcttttc tgttcacagt tgtggctctg ttttttaaga atgtaacttg 360
tttttagatt atacttgcat ctgtgacttt actaccagcc acgttgacac aaaacaggtt 420
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aaaaaaaaan aaaaaaaaaa aa 982

<210> 262
<211> 778
<212> DNA
<213> Homo sapiens

<220>
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<222> (445)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (655)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (690)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (699)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (733)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (746)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (771)
<223> n equals a,t,g, or c

<400> 262
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gtcgtccacg aacgagtacc tcctaaggag gtgcagcctc cactaccgga cacatttttt 120
gaccatttta accgggtgca gtgggccttt tctatttgtg aaattaatgg catgatcctt 180
gtaggactct ggttaattca gtggctgctc ttaaaataca agtaagtcaa gtaaaaaaaa 240
aaaaaaaaaa ctcgaggggg ggcccggtac ccawttcgcc ctatagtgag tcgtattaca 300
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aatcggcaaa atcccttata aatcaaaaga atagaccgag atagggttga gtgttgttcc 600
agtttggaac aagagtccac tattaaagaa cgtggactcc aacgtcaaag ggcgnaaaac 660
cgtctatcag ggcgatggcc cactacgtgn aaccatcanc ctaatcaagt tttttggggg 720
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<210> 263

<211> 1234
<212> DNA
<213> Homo sapiens

<400> 263
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ggatgccagg tgtttaacac ctgatggcat ctaatcctca caaaaacctt cactggtgcc 180
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gcctgtcaaa aaataaaaaa aaaaaaaaaa aaaa 1234

<210> 264
<211> 876
<212> DNA
<213> Homo sapiens

<400> 264
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cggtgctgtg catcctcagc tacgacacgc tgcagtactg cgacttcttg ggctccgggg 180
cggccatctg ggtcaccatc ctgtgcatgg cacggctcaa gacagtcctg aaatacgtgc 240
tgtttcttct gggtacactg gtcatcgcca tgtccttgca gctggaccgc aggggcatgt 300
ggaacatgct ggggccctgc ctctttgcct tcgtgatcat ggcctccatg tgggcttacc 360
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ccagccctgg acagattgat ttccagctga ataaattggc ctagataccc tcaaaaaaaa 780
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 840
aaaaaaaaaa aaaaaaaaaa aaaaaa 876

<210> 265
<211> 822
<212> DNA
<213> Homo sapiens

<400> 265
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tgggtcaatg gaataataaa ttaagtacag gcaggaattt ggttgggagc atcttgtatg 120
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cacggtagca ccagttgcag gaaggagcca gacttgttct cagagcactg tgttcacact 420
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aaatctacag tgtttcttca cttcttttct gatctggggc atgaaaaaag caagattgaa 540
atttgracta tgagtctcct gcatggcaac aaaatgtgtg tcaccatcag gccaacaggc 600
cagcccttga atggggattt attactgttg tatctatgtt gcatgataaa cattcatcac 660
cttcctcctg tagtcctgcc tcgtactccc cttcccctat gattgaaaag taaacaaaac 720
cccatttcca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 780
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 822

<210> 266
<211> 513
<212> DNA
<213> Homo sapiens

<400> 266
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catgtggcac attacaaatg ccctgtaata cagataatta tcaaatactt cttagcattc 360
ttttatgtat aaatgtacca tagtagtaaa tttcttcctt cacattgaga ctttttttaa 420
aactataaac agtactctga attgctataa aatatgttct atatcaattc attcaaataa 480
atatatagaa gttgaaaaaa aaaaaaaaaa aaa 513

<210> 267
<211> 888
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (99)
<223> n equals a,t,g, or c

<400> 267
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tcttggactc ctgacttagg tcatctgccc accttgtgnc tcccaaagtg ctgggattat 120
ggtsatgagc caccatgccc agcctgcata ccttttttttt attgttgcct tttgttttta 180
tgcctgtagc ttttacatta cattaaacag tttttgaaaa ttgtcagact gttaataaca 240
ttagttttat cttgtttgaa aattatttag taaggagaaa gaaaaataca aattcatgtt 300
ttaattgata gttgtacgag cctcatagca atatttccat gtgctatatt cagttattgc 360
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gcgtggtggc acacacctaa tcacagctaa taaagagtct gagacacaag aattgcttga 780
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<210> 268
<211> 1064
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (116)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (309)
<223> n equals a,t,g, or c

<400> 268
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atttgccttt ttaaaaagtg cttggcctaa acttattgta actgcatgaa ataagncatt 120
tgcttaaaac ttaacattgt aaaattgttc tctctgaaat gagtgcagaa tttaaatcat 180
ggccaaatgt attactatta ccctatttac agtaatttsc tttgcagaaa atatttctyc 240
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tttctaacag ctttgagatt ttatctcaac aggctctctc tgaccccaaa gtagtactta 660
ccttcgtgac tactgacaaa gtcacaaaat gcaggcgatg tcatgtattt cggtacaact 720
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ggtctcgttt ttataccacc aaaaaaaaaa aaaaaaaact cgag 1064

<210> 269
<211> 1282
<212> DNA
<213> Homo sapiens

<400> 269
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aatgwgtgca gaatttaaat catggccaaa tgtattacta ttaccctatt tacagtaatt 420
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gtaaaaatga caaattaaca aaaggactaa gacaagtggt gcccaaacaa ccttttttatt 540
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aagagaaaaa aaaaaagtcg ac 1282

<210> 270
<211> 1154
<212> DNA
<213> Homo sapiens

<400> 270

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<210> 271
<211> 1810
<212> DNA
<213> Homo sapiens

<400> 271
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<210> 272
<211> 1345

<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1014)
<223> n equals a,t,g, or c

<400> 272
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<210> 273
<211> 1831
<212> DNA
<213> Homo sapiens

<400> 273
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tataggkttt ttttttttt taaagaaaac aataaacttt caaagagaaa accaaaaaaa 1800
aaaaaaaaaa aaaaaaaaaa aaaaaactcg a 1831

<210> 274
<211> 1139
<212> DNA
<213> Homo sapiens

<400> 274
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<210> 275
<211> 618
<212> DNA
<213> Homo sapiens

<400> 275
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aaaaaaaaaa aaaaaaaa 618

<210> 276
<211> 1121
<212> DNA
<213> Homo sapiens

<400> 276
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ctttccattt ggtcttattt ttatccacat agtttccttg aacaaaggag aaactacata 120
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<210> 277
<211> 1233
<212> DNA
<213> Homo sapiens

<400> 277
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<210> 278
<211> 426
<212> DNA
<213> Homo sapiens

<400> 278
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catttaacaa ggtgcttctt ttcatgtgat gaggccctgt gaagaaggga caggatatac 180
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tcttggctga atggtctgct ggggtctggc atagaaagca gatggcttaa aaaaaaaaaa 420
aaaaaa 426

<210> 279
<211> 3244
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (343)
<223> n equals a,t,g, or c

<400> 279
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<210> 281
<211> 1778

<212> DNA
<213> Homo sapiens

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<211> 2498
<212> DNA
<213> Homo sapiens

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<211> 195
<212> DNA
<213> Homo sapiens

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acattccttt acacagccct catggaataa acagcacaaa acagcaacga caacagcaaa 180
aaaaaaaaaa aaaaa 195

<210> 284
<211> 1262
<212> DNA
<213> Homo sapiens

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<221> SITE
<222> (1041)
<223> n equals a,t,g, or c

<400> 284
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<210> 285
<211> 1371
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1155)
<223> n equals a,t,g, or c

<400> 285
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<210> 286
<211> 2345
<212> DNA
<213> Homo sapiens

<400> 286
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<210> 287
<211> 1015
<212> DNA
<213> Homo sapiens

<400> 287
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<210> 288
<211> 1708
<212> DNA
<213> Homo sapiens

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Doc 1 of 1 Patent Publication

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Application Serial No. 09/755,950

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gttaaacgga cgtgtaaata gtggtaaata gtgaaagcct gtccttccct aaatgtaaag 1140
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<210> 304
<211> 2311
<212> DNA

<213> Homo sapiens

<220>
<221> SITE
<222> (2301)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2311)
<223> n equals a,t,g, or c

<400> 304
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tgtgtaagag ctatattgtg tattttatta aattaatata tagttgtgtt gcaaaaatat 180
ttgggcttat attgtaaatg gcaagtgttg ccttggtagc tgtcgaactc tatgagtttt 240
gtttttcct gcttcctttt ccccatggag tgtgggaagc agtgcctcag agcaaagtct 300
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gtgagctgat ggagctaact gaaaggtcaa aaattacatc catcagtcat ggttatgtgc 420
aagtccttgt agaagctttt attaaagtca tgctaaatca caagaattga catttgtacc 480
aatatctgaa acttcttcat gtttttcaa taacatacag cttctgcctg tgtagatatt 540
atgccatcag ttggttctca aaagtatttt aagtgcttca gatgtgtgtt cccattatat 600
tttgaaaaca tgaaaaatgc tttaatgcat gtatgtacca gcagtggtta cttgcattgt 660
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caccttcct tgtgacattt agcgagtttc aaacttactt ccatatgagg ctaagaaacc 840
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aattcatatc tttcaagtac taacccctca aaaaagccca cacatacaaa atatgtgatg 2160
tgataccact ttgtctttta ggtctttaag taactgaagt taagcacaga aaaaaaaatc 2220
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aaaaaaaaaa aaaaaaaaaa nctcgggggt n 2311

<210> 305
<211> 2311
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (2301)

<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2311)
<223> n equals a,t,g, or c

<400> 305
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tgtgtaagag ctatattgtg tattttatta aattaatata tagttgtgtt gcaaaaatat 180
ttgggcttat attgtaaatg gcaagtgttg ccttggtagc tgtcgaactc tatgagtttt 240
gtttttcct gcttccttt ccccatggag tgtgggaagc agtgcctcag agcaaagtct 300
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gtgagctgat ggagctaact gaaaggtcaa aaattacatc catcagtcat ggttatgtgc 420
aagtccttgt agaagctttt attaaagtca tgctaaatca caagaattga catttgtacc 480
aatatctgaa acttcttcat gtttttcaa taacatacag cttctgcctg tgtagatatt 540
atgccatcag ttggttctca aaagtatttt aagtgcttca gatgtgtgtt cccattatat 600
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gtagtgtttt tcaagaggtc tgggtcttaa caaaatgttt tcctttatct cagtgctctt 720
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tgataccact ttgtctttta ggtctttaag taactgaagt taagcacaga aaaaaaaatc 2220
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aaaaaaaaaa aaaaaaaaaa nctcgggggt n 2311

<210> 306
<211> 1057
<212> DNA
<213> Homo sapiens

<400> 306
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tacacgatgg tcagccatgg gtgtcatgtc cctcttttg ccttgtttat ggtgttacct 120
tccagccaag ggttgcctta aattgtgcca ggggtgttat gaccgggtta acaggcctgg 180
ttgccgctgt aaaaactcaa acacagtttg ctgcaaagtt cccactgtcc cccctaggaa 240
ctttgaaaaa ccaacatagc atcattaatc aggaatatta cagtaatgag gatttttct 300
gtctttttt aatacacata tgcaaccaac taaacagtta taatcttggc actgttaata 360
gaaagttggg gatagtcytt gctgtttgcg gtgaaatgct ttttgtccat gtgccgtttt 420

aactgatatg cttgttagaa ctcagctaat ggagctcaaa gtatgagata cagaacttgg 480
tgacccatgt attgcataag ctaaagcaac acagacactc ctaggcaaag tttttgtttg 540
tgaatagtac ttgcaaaact tgtaaattag cagatgactt ttttccattg ttttctccag 600
agagaatgtg ctatattttt gtatatacaa taatatttgc aactgtgaaa aacaagttgt 660
gccatactac atggcacaga cacaaaatat tatactaata tgttgtacat tcggaagaat 720
gtgaatcaat cagtatgttt ttagattgta ttttgcctta cagaaagcct ttattgtaag 780
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tttataaaaa agaatattta ttttaagagg catcttacaa attttgcccc ttttatgagg 960
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tatattaacg tttgaaatta aaaaaaaaaa aaaaaaa 1057

<210> 307
<211> 1948
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1913)
<223> n equals a,t,g, or c

<400> 307
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ttttaaaatg tgctaaattt tggacctatc tcagcctgag aaggtttttt tctaaaaagg 120
ttcaggcatc tttttatttt cctactgctc tccttacctg tgcacacctc attgcctgta 180
tctgtgatgc ctctatttgg agggaacctg ggttatgcct gggcctggtt tactcccata 240
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gttccttatt ttgaatagcg tgttcttaga agttcatggg ttctaattga aggaaactag 360
agggacccct tccatccttc agcaagggtc cccaaagata ggcagggtgc ccagagaatg 420
cctcaactgc tgagaactcc acccttttcag gtccaatgca ggctcatctc cagaaaagct 480
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cttgctaatt tagctatctc ctctttataa gacgctcatg gaaataaaga ttagccataa 600
aatacctta atgagcttcc aaattttatc tgcaaggaac ccagggcctg tggcattata 660
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agagcctctt gaaattaact taatttacta tcacacttgt aacataccca tttatttggg 960
cctgtgaata tgtgtgcact ccatttgatt acatctaatg ttctccctaa ataaagagta 1020
caattaattc attagaggat ggtttgtttc caggggtaag tgccagttta tgatgattcc 1080
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gaaatcctac agattgagta aactgtggag gcactccttt tcatgctcca tttaacttaa 1440
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gcaattaccc ctttgtgctt ctcgaacctt ctccaagcca gtgtcgttga aggacagatt 1560
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taatcccagc tactcgggag gctgaggcag gagaatcact ggaacccagg aggcagagat 1860
tgtgttgagc cgagattgct ccattgcact ccagcctggg caacaagagc aanactccat 1920
ctcaaaaaaa aaaaaaaaaa aaaaaaac 1948

<210> 308
<211> 622
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (18)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (23)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (33)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (34)
<223> n equals a,t,g, or c

<400> 308
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tgaccttgat tacgccaagc tcgaaattaa ccctcactaa agggaacaaa agctggagct 120
cgcgcgcctg caggtcgaca ctagtggatc caaagaattc ggcacgagct cgtgccgcgc 180
ccgttcaacg tccggagcat cggtgcagtt tcgagggtaa agcctttggc gcggtgatgt 240
ggacttttgt tctctaacta caactcccag catacgtcac ccctcacgtg ggcgctaggt 300
caccagtgaa aagttgtgca gagcccaaca tgagcttcat ttccaagctg ccacctatct 360
ctgcctcctg cgtagcatcc ggaaacatgt ggccctacat caggaatttc atggcaaggg 420
tgagcgctcg gtggaggagt ctgctggctt ggtgggtctc aagttgcccc atcagcctgg 480
agggaagggc tgggagccat gaacatggag aatatccttg gatgctgcat tcataggaga 540
attgaataat ttctatcaat atgtatttat cattaaattt tttttaagtt taaaaaaaaa 600
aaaaaaaaaa aaaaaaaaaa aa 622

<210> 309
<211> 1647
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (89)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (170)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (603)
<223> n equals a,t,g, or c

<220>
<221> SITE

WO 2004/063209 PCT/US2004/000504

<222> (751)
<223> n equals a,t,g, or c

<400> 309
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ttagtttctt acgactatct ttgattttng ataggcatct tggagtagtt ttttgaattt 120
ttgactcatt aattttcaga agggtgtcta gactatttac actataagtn gttcatttac 180
ctgagagtct aaacattata agttatcaaa caaaagattt atatgctggt cattccgttt 240
ctaaatcaaa tggtaatact tgaagaattt ttgctttaat ggaaggcagc ttgtgtgaca 300
gtgcgatctt aaaagtgtgc agatcccagt ctcagtcaat caatgtgggc tgattgctgt 360
ggattgtaat agacagtcac atcatagcaa tcttgcagat aacgtttgct gctgtttatt 420
gtcagcttta gcttctgcta ttttatttaa ataatattat cttatttctc cctatctttt 480
tttctcccct tttcctttct tcatttctcc ctatctttaa cttaacctgt cttctccctt 540
ttccacttcc attttttttg ttattttctt gataatgtag aaatattatg acatttatat 600
tgngttcttt taacttaatc tcccacattt taaaaatctt agttctagag ttaaatatat 660
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aagctttgac tgtttttctt tcttttatag ncatcttagt caaatttgta atcgtttcct 780
taatggaatg gggtgttcaa aggccagtgt ttatggaaac tgactaggta acatatatag 840
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aatcccagct acttgggagg ctgaggcagg agaattgctt gaaaacccgg gaggcggagc 1560
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ctcaaaaaaa aaaaaaaaaa actcgag 1647

<210> 310
<211> 598
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (550)
<223> n equals a,t,g, or c

<400> 310
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ttctcccttt ctattgtttt ttttttttctt tatcgtatat acacacctaa gtttttccat 240
cttgcatctt cccacaatct cacttctccc tctggctcct gccccgtctt tctccttttg 300
ttcatactca gtctcaaagg aagagtctat agtcactatc tccacttctc cacctgccat 360
ttagctttcc accctctgca gccagaattt gaccctcaga actccactga aactactctg 420
tcaaaagcta caaattattg cctaattgtc aaagtcaatg ggttatttttt catattcatc 480
atatatggca tttaacatta tagctctaga ttttgccccc accttccttt atgaaactca 540
ataccaaaan tctcacacag caactcaata gcaaaaaaaa aaaaaaaaaa aactcgag 598

<210> 311
<211> 1467
<212> DNA
<213> Homo sapiens

<400> 311

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aatgaatatt gtgtggtttg tgatgagcca catgtgtttc aaaatggccc tatgcttagg 180
cctaccgtat gtgaacggga gctgtgtgtg tttgcttttc aaaccctggg agtaatgaat 240
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aggtctgcgt tggaatctcc tagaaaagtt gtgattttcg agccatatcc ttctgtggta 360
gatcctaatg atcctcagat gttggccttc aaccccagga aaaagaacta tgatcgagta 420
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caagtgggag atgcaaatat taatacacaa gaaggaggca ttcacaaaga gatcctccga 1140
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ctcattaaat acctaaaatg gtataagatt tatcaattgt agggttatgg aatctagtaa 1380
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aaacaaaaaa aaaaaaaaaa aaaaaaa 1467

<210> 312
<211> 1551
<212> DNA
<213> *Homo sapiens*

<400> 312
caaagattca tgtgtggata tgtttctgga ctttcttttt tgtcctgttg gtctctttgt 60
aagtctttaa gtcactctct tcattctcat aacttgaagg tcttgctatc tgatagtgaa 120
agtcttccac tgtgttgctt ctccaagagt ctcttggctt ttcctggtcc tttgcatttc 180
atttaatttt agaattagct tgccaatttc taccaaaaaa aaaagtgatg gaattttgat 240
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Page 60 of 95 pgs 50

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cacatgtggc ttttgagcac ttgaaatgta gggtaatgca atagggggac tgattttaac 720
ttttatttaa tgttaagtaa tttaaatgta tatagccaca tgtggctaat ggttaccaca 780
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aacttgggtc ataaaagaga taaaatctta agtgcagagt taagcatcac aagaccagat 1860
tgacttctag tacctggtgc atcaaacaaa aattctgata ttggcagcct gggcaacata 1920
gtagaacttc ttcccccaca aaaaaaaaaa aaaaaaaact cgag 1964

<210> 321
<211> 1650
<212> DNA
<213> Homo sapiens

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aattcgtttg ctgtccttcc tctccttcga agatgacaag gcctaccatc gtttcttcct 120
gcctttgggc cgtcaggcag ttggttggga cccgctccaa ccctcggttc ttcctgcaat 180
acagtggata caatttgtca tggctactct gagtgttata ggttcaagtt cacttattgc 240
ctatgctgta ttccataata tacagaaatc tccagagata agaccacttt tttatctgag 300
cttctgtgac ctgctcctgg gactttgctg gctcacggag acacttctct atggagcttc 360
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tttcgccatg tttgccaggc tggtcctgaa tgcctgacct caagtgattc accgcttggg 480
cctcccaaag tgctgggatt acaggtgtga gccactgcac ctggcctcct taaatgtatc 540
tttatggcct aattttcacc tttgcaccca gttgatattc tacatttcct catttctcta 600
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tttctcaagc ctgatacctc tgctattgat gacacctgta ttctgtctgg gaaatactag 780
tgaatgtttc caaaacttca gtcagagcca caagtcttac ttatccgagc ccagacattg 840
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10/15/50 - 3005550

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<210> 322
<211> 924
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (924)
<223> n equals a,t,g, or c

<400> 322
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aaacctggcc tggactggga tccgggaagg cttcctggag gaggtggcag gagccaggat 120
ctgaatggtc accgacgatg agggcgcacc tgctgtcctg gagcttccga tctctgttcg 180
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ccatggagga actgggcctg ccgccccggc ctgcacctgc tgcccgcatg ctggggtccc 480
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tcagaaaaac ccaattgcac gtgtgggatt cttccccagc ccttgggtgc ggggtctctg 660
tgcacttgag agctggggga cccacccacc gtctcccact ccaagttcat cccagagcgt 720
gggcccgctg ggcacctggc acctggcctg cagatgctgc tacgagtgac cagtgctgtg 780
tggaggagcc aagggcggcc cctgggaaac cgggcttcaa cagtacaagg aaaagaaact 840
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gaataaagaa agaaaagaaa aaan 924

<210> 323
<211> 1015
<212> DNA
<213> Homo sapiens

<400> 323
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ccccgggctg yaggaattcg gcacgagctg accaggaact gctgagaagg aagggaagag 120
gggcttgaag cagagcatcc agcgagaaac ctggcctgga ctgggatccg ggaaggcttc 180
ctggaggagg tggcaggagc caggatctga atggtcaccg acgatgaggg cgcacctgct 240
gtcctggagc ttccgatctc tgttcgggga ccctgtgagc cttctggccg gctgcgtgca 300
gagcccactg ggcacggtgg tcggcctggt gtgaggcccc ccggggaccg gcagtgtgtc 360
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cagcgcatgg ytgccctggc tcacgaggca gtcgggactc gtgacttgct ggctgctggc 480
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cctgctgccc gcatgctggg gtcccatgga ggaaccaggc ctggcgcccc ggcctcgccc 600
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gactcagctt ggtctcccgc aggcttcaga aaaacccaat tgcacgtgtg ggattcttcc 720
ccagcccttg ggtgcggggt ctctgtgcac ttgagagctg ggggacccac ccaccgtctc 780

ccactccaag ttcatcccag agcgtggggc ccgctgggca cctggcacct ggcctgcaga 840
tgctgctacg agtgaccagt gctgtgtgga ggaggccaag ggcggcccct gggaaaccgg 900
gcttcaacag tacaaggaaa agaaacttgc tctgttttgt aagagcgtgt tccttttcct 960
ctttttgtc actttaaaga ccaaaaagaa taaagaaaga aaagaaaaaa aaaaa 1015

<210> 324
<211> 803
<212> DNA
<213> Homo sapiens

<400> 324
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ggaccatatc atattcatct ttgcatccct ggcacatgca tgagaacata agtacttaat 120
aaatgcagtt gaatggataa tgaattagtg ttatttatgg attagaaaaa gcatgtttct 180
atttaagtaa gctgtaaaaa gtattattga atatttactg taaatatatg ttcacataaa 240
aaaataactt ggagggtctt tgtgtccctg ggcatattat ccatcttcca tgggaaagaa 300
tccactgtgg tttctgaaga gtgattggaa aatggattat tttgaggatt gaagaagtgt 360
tctttctgcg ttgtcacttt gttcaacagt aaaactttat tctcaggttc aactcgcatt 420
gtaacatttt gacagttttt tttaatcacc tacaatctgt aaagaatgta tatattcttt 480
tcagcatctc agtttgaaaa gacatgcagt taaacttgac cttttgataa tcgctcttac 540
aggtcattgt ctgttctaac agcaaattgt aaacatgtgc ttcatagata ttgtggctct 600
cagtcatcac tttgtcctat ggtatttatt gaatgttcac atactaatgg tgcacaggtg 660
ttttttttcta taaatcttct gactgtcctg taattcattc ttaagcttta acttgaaggt 720
atcgtaattg ccggcatttg atgtttagca ataaaagaat aaatgtgtac cagcatttta 780
tgtttaaaaa aaaaaaaaaa aaa 803

<210> 325
<211> 665
<212> DNA
<213> Homo sapiens

<400> 325
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ttacacttgt ggccatcctt catttcttca taaactttgc ttaaaagact aaaattccca 180
attccttata aaaaatatac tcttgccctc agccccagtg gccactggca aagactgtta 240
tttcccaatg gataagagag cctccttcat cttcttggcc atagttggga tgaggtgcgt 300
gtggtcatcc acacacttgg tcacacaacc gtccagctgc tgcttcacct gaagctcctt 360
actcccagta tccattgaat ctttggcttt gttgttgcaa tgcatggcgc accgggccag 420
gtggtgccgg aacttctcca actcactggt gagcaaagcc cgggcttgag ccagaggcac 480
atggcagtgc tttgatgtac tggtgcacct actgcatgga ggcctggctg tcctcacaac 540
agctggtgct gcaccggaac atgagaccct gcatcttcca gatgttctct ctytccagac 600
tyttcaccat ggagtccacc acctcctgca cccacagctg ctgcagctct gccatggcgt 660
cccca 665

<210> 326
<211> 1454
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (668)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (676)
<223> n equals a,t,g, or c

<220>

D95566.2 09854B4

<221> SITE
<222> (695)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (705)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (720)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (814)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (821)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (828)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (881)
<223> n equals a,t,g, or c

<400> 326
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agggcgcatg cgcatttccg ctccttgccg gttttccgga cctctacgag tggctgcccc 120
acaaaatgcc tgcttctctg cggaatccta ctgttcttca catgctctct aataccatct 180
tttcatatcc actttctctt ccatgttgaa aaattaaatt gacaggctgg attctgcaaa 240
gatctttgga catttaagta tcttcgaccg gcgcgaaaag aggcggcctg accttggaag 300
tgggacgggg tcctgcagcg ggtccttccg gcgggtgaca ttcagccggc ggttcggggc 360
gacggactct ccattccaga accatggccc aatttgtccg taacccttgt ggagaagaac 420
cccggcgctg gtgaacgctg ctgtgactta ctcgaaagcc tcggattggc cacattttgg 480
taactaacgc caaggttgag ctggttcctt cccaacccct gctgaaatcc ctaaagctat 540
tcaaagcctg aaaaaaatag tcaatattgc tcagactggt agcttcaaac agctcacagt 600
taaggaagct gtgctgaatg gtttggtggc cactgaggtg ttgatgtggt tttatgtcgg 660
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ttaaaaacac ccctaaaatt accccgtctg gttttggccc ngccaattgg gaagggttat 900
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gaaggtttgg atatatatat ttaagcttta tttccagaac agtgagggtt aggtcttggg 1020
aaaactataa ctgccaaagt agaagaaata gtagtaccat atgccaagtg atagagatga 1080
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cctattgaca acatctatgt ctgtaaaaat gttagagtac ttgtcatctt gaatatagcc 1200
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ctacctttgc aaaaacaaaa taccccaaag atatttaaac aaggttataa tttagcatct 1380
tccctggatc taaatagtat attatatcct gaaataaatg aaatgattgc tataaaaaaa 1440
aaaaaaaaaa aaaa 1454

<210> 327
<211> 853
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (225)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (851)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (852)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (853)
<223> n equals a,t,g, or c

<400> 327
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ctcagtctct tgaataacta gaacatagta gctgaagaca tggatgtcat catctatttc 120
tttatatttt ttgtaacatt ttaaagctat tgcctagttt aataattatt tcagtttgtg 180
tatgtaagga caatcaggca tttaaattta taaaacatgt ttganaatct ttaaaagtta 240
cacttactga ctagttgctt gtctgttgca ctaacaaaat ttattattca tgtttcggga 300
atwycctctt taggtttygt ttgttttttt tttcatagta aattatccca gtacaagtgt 360
ctttgtacaa aattttgatt tctaagtttc tttaaaaata tcaatgccag ctgggcccag 420
tggctcacac ctataatccc agcactttgg gaggtcgaag aggatggctg aggaggttgg 480
atcgtttgaa ctcaggagtt tgggatcagc ctgagtgaca tggtgaaacc ccatctctgc 540
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ggaggccgag gtagacggat cacttgaggc caggagtttg agaccagcct gggcaacatg 660
gtgaaactcc gcctctacta aataaaaaaa aaaattagcc tggcatgggg gcaagtacct 720
ataatcccag ctactcggga gactgaggca ggagaatctc ttgaacccag gatccggagg 780
ctgcagtgag ctgagattgt gccactgcac tccagcctgg gtgacagtga gactgtctca 840
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<210> 328
<211> 1117
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (800)
<223> n equals a,t,g, or c

<400> 328
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gcaggaattc ggcacgaggt gctgatgagc gagcgggtra tgggcaccga gcaccccaac 120
accatccagg aatacatgca cctggccctg tactgcttcg ctagcagcca gctgtccacc 180
gccctgagcc tgctgtaccg cgcccgctac ctcatgctgc tggtgttcgg ggaagaccac 240
cccgagatgg cgctgctgga caacaacatc gggctggtgc tgcacggggt gatggagtac 300
gacctgtcgc tgcgcttcct ggagaacgcg ctggccgtca gcaccaagta ccacgggccc 360
aaggccytca aggtggccct cagccaccac cttgtcgccc gagtctacga gagcaaagct 420
gagttccggt cggccctgca gcacgagaag gagggttaca ccatctacaa gacgcagctg 480

ggcgaggacc atgagaagac caaggaaagc tccgagtacc tcaagtgcct gacccagcag 540
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ccgcccctca agttcacggc ccccagcatg gccagcgtct tggagcagct gaacgtcatt 660
aacggcatcc tcttcattcc tctcagccaa aaagacctgg agaatctgaa agccgaggtg 720
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<210> 329
<211> 685
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (17)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (28)
<223> n equals a,t,g, or c

<400> 329
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acctacatgt aactgtatct gggttacatg ggcaggcggt accaagtcct gctcttcgat 180
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cttcagagag gtggaaaatc atctacaaca ctgcgtttct tgtggttgtg ctgttactgg 300
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tcctatgcaa gtgttttcta caacctgcat aaccagtact ttgtaaaact tgtttacgct 420
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cttgaattcg tctgtgtgaa gcattgtaaa acgatacatt tctcttttga gtaccattac 540
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aaaaaaaaaa aaaaaaaaac tcgag 685

<210> 330
<211> 2630
<212> DNA
<213> Homo sapiens

<400> 330
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gtgccgcccc cacagccgag gcgcgaaagg gggacgcccg gcctctgggc cgctgccttc 180
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tgaatatgcc aaagacaata aagagcagtt catggagaat cacaatccca tcaattccgc 600
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<213> Homo sapiens

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<212> DNA
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<211> 1046
<212> DNA
<213> Homo sapiens

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<210> 336
<211> 1422

Patent Application Publication

<212> DNA
<213> Homo sapiens

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<211> 419
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<213> Homo sapiens

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<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<212> DNA
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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<211> 1651
<212> DNA
<213> Homo sapiens

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<211> 1720
<212> DNA
<213> Homo sapiens

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<211> 1247
<212> DNA
<213> Homo sapiens

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<210> 348

<211> 1830
<212> DNA
<213> Homo sapiens

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<211> 977
<212> DNA
<213> Homo sapiens

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<210> 350
<211> 1893
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1842)
<223> n equals a,t,g, or c

<400> 350
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<213> Homo sapiens

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PCT-GCG e-SEQ Page

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<211> 1436
<212> DNA
<213> Homo sapiens

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<210> 371
<211> 1419
<212> DNA
<213> Homo sapiens

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<211> 2396
<212> DNA
<213> Homo sapiens

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<210> 373
<211> 1984
<212> DNA
<213> Homo sapiens

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caca 1984

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<211> 1425
<212> DNA
<213> Homo sapiens

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<210> 375
<211> 1953
<212> DNA
<213> Homo sapiens

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<211> 996
<212> DNA
<213> Homo sapiens

<400> 376
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<210> 377
<211> 1165
<212> DNA
<213> Homo sapiens

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agctgagaaa aaaaaaaaaa aaaaa 1165

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<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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<210> 392
<211> 1487
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>

PCT/US2003/035...

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<210> 393
<211> 2834
<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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<213> Homo sapiens

<400> 395

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<211> 1305
<212> DNA
<213> Homo sapiens

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<211> 1962
<212> DNA
<213> Homo sapiens

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<211> 1880
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<211> 1669
<212> DNA
<213> Homo sapiens

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<221> SITE
<222> (1554)
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<400> 401
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Patent Application Publication

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<213> Homo sapiens

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<223> n equals a,t,g, or c

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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<211> 929
<212> DNA
<213> Homo sapiens

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Patent Application Publication

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<211> 1718
<212> DNA
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<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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<213> Homo sapiens

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<213> Homo sapiens

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<211> 870
<212> DNA
<213> Homo sapiens

<220>

Page 258 of 1622

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<210> 429
<211> 1041
<212> DNA
<213> Homo sapiens

Patentscope

<220>
<221> SITE
<222> (660)
<223> n equals a,t,g, or c

<400> 429
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aaaaaaaaaa agggcggccg c 1041

<210> 430
<211> 1783
<212> DNA
<213> Homo sapiens

<400> 430
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gtgatgggta tgtttaggga ggggaaatga aaaaaaaaaa aaa 1783

<210> 431
<211> 2208
<212> DNA
<213> Homo sapiens

<400> 431
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<210> 432
<211> 1097
<212> DNA
<213> Homo sapiens

<400> 432
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ccctcatctt tttcgacatg gaggccactg gcttgccctt ctcccagccc aaggtcacgg 180
agctgtgcct gctggctgtc cacagatgtg ccctggagag ccccccccacc tctcaggggc 240
cacctcccac agttcctcca ccaccgcgtg tggtagacaa gctctccctg tgtgtggctc 300
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aaaaaaaaaa ctcgtag 1097

<210> 433
<211> 1123
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (755)
<223> n equals a,t,g, or c

<400> 433
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gcccatgcag accctcatct ttttcgacat ggaggccact ggcttgccct tctcccagcc 180
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cacacctggg gagtaggcca agaaggaaaa tctgacgaat aaagacccccc gctgccccat 1080
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 1123

<210> 434
<211> 382
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (18)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (55)
<223> n equals a,t,g, or c

Patentscope

<220>
<221> SITE
<222> (378)
<223> n equals a,t,g, or c

<400> 434
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ccacgcgtcc gcctcccccg tgtccgtatt ccttacctgc acctttttcct gcaggtggga 120
ctcagggtac ttgttcagca catgtgcttt cctcttcgtc ttctaggagg gagtggttgg 180
gtctgggctc cctgttccca agcccacgtt gtgttcatgg ctgtggctgc ctgggtgatg 240
agtgtgagtt tgcacctggg ttttccctgg gccttaagca gacagcgtca ccctcagagc 300
catcaccact gtgaatcatt tggatctttt tccatctggg cataaaattg tatgtgtaga 360
caaaaaaaaa aaaaaaangg gg 382

<210> 435
<211> 750
<212> DNA
<213> Homo sapiens

<400> 435
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ttggcaggtg tgaagatgag gaaggaggcc cctgaagagc cggcgggaag agcgggtgga 120
tgggaacaca gtttccccgt ccgccagcag gtggcactgt tggcccagga ctgctcgggc 180
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cgccattgca ctccaacctg ggcgacagtg agactccatc tcaaaaaaca acaacaaaca 660
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tgaaagttga aaaaaaaaaa aaaaaaaagg 750

<210> 436
<211> 1238
<212> DNA
<213> Homo sapiens

<400> 436
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tcttctcagt tttttttttc ttttaaaaaa tgtgcacaaa ctatttgttg cagccgtgat 240
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agagttacaa aaaaaaaaaa caaaaaaaaa aaaaaaaa 1238

<210> 437
<211> 829
<212> DNA
<213> Homo sapiens

<400> 437
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aaaatatatt ttctactggt gatttcaaca ttatttctca tactgacttt tattactgga 180
aatgttcctg tacatgttgg cagcagataa agatttttga atgtttgaat gccctctgcc 240
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tcttttaact tttttcatgg acttccttat atgtacataa taattaaatg ttgaaattta 360
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agtaatgtaa ataaaataat tcatgttaaa gatggaacaa aataattaac tttacatgtt 480
tggtgataca gatgcaaatg tttttgatat atggagatgt tgagtctttt gactttacta 540
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaa 829

<210> 438
<211> 802
<212> DNA
<213> Homo sapiens

<400> 438
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gtactttaaa aaaaaaaaaa aa 802

<210> 439
<211> 1148
<212> DNA
<213> Homo sapiens

<400> 439
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gttcttccag agatttttt aaaatgcctc ttccttttct cactccctcc ctctttttct 180
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10/15/2003 15:39:39

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Patent Application Publication

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<212> DNA

PCT/US2005/045126

<213> Homo sapiens

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<211> 1875
<212> DNA
<213> Homo sapiens

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aaaaaaaaaa aaaaa 1875

<210> 452
<211> 518
<212> DNA
<213> Homo sapiens

<400> 452
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<210> 453
<211> 1413
<212> DNA
<213> Homo sapiens

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<210> 454
<211> 2163
<212> DNA
<213> Homo sapiens

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<210> 455
<211> 2163
<212> DNA
<213> Homo sapiens

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<210> 456
<211> 1588
<212> DNA
<213> Homo sapiens

<220>
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<222> (1586)
<223> n equals a,t,g, or c

<400> 456
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<210> 457
<211> 682
<212> DNA
<213> Homo sapiens

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<222> (7)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (12)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (13)
<223> n equals a,t,g, or c

<220>
<221> SITE
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<223> n equals a,t,g, or c

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<221> SITE
<222> (32)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (670)
<223> n equals a,t,g, or c

<400> 457
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<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

PCT/US2005/035359

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<210> 461
<211> 678
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<211> 870
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
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<223> n equals a,t,g, or c

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aaargggrgg gtttaaaatt masgggcggg 870

<210> 464
<211> 1735
<212> DNA
<213> Homo sapiens

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<211> 509
<212> DNA
<213> Homo sapiens

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaa 509

<210> 466
<211> 917
<212> DNA
<213> Homo sapiens

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<210> 467
<211> 676
<212> DNA
<213> Homo sapiens

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<211> 1232
<212> DNA
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<223> n equals a,t,g, or c

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<212> DNA
<213> Homo sapiens

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<220>
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<220>
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<223> n equals a,t,g, or c

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<213> Homo sapiens

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<223> n equals a,t,g, or c

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<222> (692)
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caatggagaa gaaccaagct gggtctataa ggaattgcac atgagatggc acacatattt 480

atgctgtctg aaggtcacaa tcatgttacc atatcaggct gaaaatgtca ccactatccg 540
gagagtttga catgttttgt tgggaatata ttttgtctct ctgcatctgt tatgaacgca 600
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<211> 2629
<212> DNA
<213> Homo sapiens

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<222> (2591)
<223> n equals a,t,g, or c

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ttttggagta tgtacatgat aaattataat acgtatatgg ttgaagttat tttatttttt 600
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Application Publication

<210> 473
<211> 2017
<212> DNA
<213> Homo sapiens

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<222> (2015)
<223> n equals a,t,g, or c

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cctcaactgt aaaccacatg taaatgctta atggagactg ttttcattct tgtgatattt 360
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<210> 474
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<212> DNA
<213> Homo sapiens

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<220>
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<210> 475
<211> 1412
<212> DNA
<213> Homo sapiens

<400> 475
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<210> 476
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<212> DNA
<213> Homo sapiens

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<220>
<221> SITE
<222> (771)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (796)
<223> n equals a,t,g, or c

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<210> 477
<211> 875
<212> DNA
<213> Homo sapiens

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<210> 478
<211> 753
<212> DNA
<213> Homo sapiens

<220>
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<222> (706)
<223> n equals a,t,g, or c

<220>
<221> SITE
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<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (746)
<223> n equals a,t,g, or c

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gtcaatctcc cagcgtcttt atccgtgttc cttgactctg ggcaacttaa aagccctaat 240
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tcctaccgag aatttccgga accacgtgcg agatgatgcc agtcatgaac gtctccgcgc 360
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ctagaatctg tgttgaggtt tttcaaaatt aagtaacgcc agagacatac tgtgacgtga 480
ggaaacgctc ttaaatgaaa ttttaagatc tatttgagaa acatgtacta aaaatgtact 540
gacctcctat taatgccagg cgctatgctg aattctgggc cttcacattg tccttccatt 600
attagaactg aagcccagat tatttgaaac aaaaaataaa cttcaataat ttattaaaaa 660
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taaaattccc tgggccggcg ntttanaaag gcg 753

<210> 479
<211> 690
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (352)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (407)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (439)
<223> n equals a,t,g, or c

<400> 479
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gtgctggcta caacttccaa tacaaaatga gtctctcttt tttttctttg tcggtctagc 120
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atggttgact tgagctcatt tttcttatgt ggatgttcac agctatgaat tntcctctga 360
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catagtcatt tctgctttnc cttgtgattt cttctctggc ccattggttg ttttaaaata 480
tgctgtttaa ttctcacaga tctctagata gtacagggaa aaaaccaccc tgtctaaaat 540
tgtgctgcaa cttttagtgt ccaagctgaa tgaagggagt ccccacttga tcaatgcagt 600
gtggttttgg gtggcttgtc tctgtcaagg agatcttcat tacaatgatg aaaaacaaaa 660
aaaaaaaaaa aaaaaaaaaa aaaactcgag 690

<210> 480
<211> 1512
<212> DNA
<213> Homo sapiens

<400> 480
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atagtcgttc ctatcaagag acagattctg tttcccaaac cttgaacttc tcttgactta 540
tctgcactgg cacagggtgc cagtttgggg cccaggttta aaggtcctaa atgcttctgt 600
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aaaaaaactc ga 1512

<210> 481
<211> 2120
<212> DNA
<213> Homo sapiens

<400> 481
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cagtgtttta tttcttcaat ggctaatatc tataatgaaa agatactgaa ggaagggaac 180
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ctaagtttca tgcagatgaa tataaggtaa tatactatta tataattcat ttgtgatatc 2040
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aaaaaaaaaa aaaaaaaaaa 2120

<210> 482
<211> 846
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (775)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (807)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (821)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (835)
<223> n equals a,t,g, or c

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tggacacact ggagcaagta gaacttattg accttgggga cccggatgca gcagatgtgt 420
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cctcctccga ctcctccacc aacctgcata gcccaaatcc aagtgatgat ggagcagata 600
cgcccttggc acagtcggat gaagaggagg aaaggggtga tggaggggca gagcctggag 660
cctgcagcta gcagtgggcc cctgctacag actgaccacg ctggctattc tccacatgag 720
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akaagtggga aggatggtgg gatgggnacc tttctaagaa ntaacccttt tctgntttac 840
tggtaa 846

<210> 483
<211> 652
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> n equals a,t,g, or c

<400> 483
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aaaaaacgag aaattaagga agcacataaa aaaaaaaaaa aagggcggcc gc 652

<210> 484
<211> 2909
<212> DNA
<213> Homo sapiens

<400> 484
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<210> 485
<211> 2918
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (2910)
<223> n equals a,t,g, or c

<400> 485
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cgggagcgcc caggccgtgt agcctttgat gggatcaccg tcttctactt cccccgctgc 180
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<210> 486
<211> 2918
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (2910)
<223> n equals a,t,g, or c

<400> 486
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<210> 487
<211> 1891
<212> DNA
<213> Homo sapiens

<400> 487
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gtgaccttga gcagcccagc cctgggccag ctggtcaaga gcgaggtgcc cctggatagg 180
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gagatgcggg ctacacagga ggacttcgac aaggtcatgc aggtggtgcg ggagcagctg 960
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ccatgaaggg cagtgggtag aggagtgcag gcaccctgac cagcagagat tgctgcagaa 1800
ataaagtctg cttggctctt gggaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1860
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa a 1891

<210> 488
<211> 1487
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (432)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1024)
<223> n equals a,t,g, or c

<400> 488
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ccctgcggct tttaatttgt tattcatagc agccaattct ttctcctgct gcttcttgag 120
ataccttttgc gccgtagcag tcacaatttg aatgaagaag ttaatgagca ttaatagtac 180
tacagtgttc caaactgaag ctaatgagag atcccacttt ttcacctgat aagaatgaag 240
gttttacgaa aaatcattga caaaaataag gtattgtaaa aatgaacctc acaaggttgc 300
ctcgtcaaat gaagatacct ttatattgga ggtcacatga gatggggttg tcatatactt 360
gtcttttatg gcatgcaatt tggcaacaag gttggggagg atagatcaaa acccaggtat 420
gaagctgaga anccaaatca actcattctc tatccagtta agtagttgat tattgcagac 480
tgatatgatg aaaattgtct gcaaaagata attaatataa tcaagaaaac ttccttaatc 540
ttacagatca aggtttaatt tgccaagact ccaactccta tagcttcata atgatgtttt 600
tgtgatcaga gaaattaatt gcatttatat tgcgtttaga aggattaaac aaacttttga 660
aatgtagtaa aaaggttaaa aaaaagcaaa gcactcaata tacccagcaa aataaatcaa 720
gaaataactc caaacgacat cagtagtcca aatcgtgtgg aaaaagacct tcacaaacct 780
gtatgtgagt tttaataatt gcttttccaa ccatcgtagc cagaaaaaac ttccagaaag 840
gaattccaaa ttgtccacac ataatgccag caaggtcgaa tagaggattt ggcacctaca 900
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tgaaccaggg ctctataaat tattccatgt gtcgatatat agacgcgaga atatattttc 1020
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ttaattacct ttggcaactt aaaaaacaga attaaaaaac tttgaccaaa ttcaagattg 1380
atagtcttag catgtatggt ttatgacctt tcaaagatta tacaaaccgc gaatcgtaga 1440
aaacctatat cagatcaact acaagttaca aaagcaagca gctcgag 1487

<210> 489
<211> 262
<212> DNA
<213> Homo sapiens

<400> 489
cggcacgaga aaagatcaag tccaagccat taaatgtaac atctaacagt ctccatgacc 60
tggcctcttt aatttgtaac cttccaccct ttactttgaa cttttctgcc aagagcactg 120
agcttccttt atgtttttgc ccatagttgg gagcccccta tctggaatat gctcttaccc 180
ctttgctggt ctagctccta ctctattttt attttctggg caacagagcg agactcttgt 240
ctcgaaaaaa aaaaaaaaaa aa 262

<210> 490
<211> 773
<212> DNA

<213> Homo sapiens

<220>
<221> SITE
<222> (38)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (769)
<223> n equals a,t,g, or c

<400> 490
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gcggtaggcg tgtacggtgg gaggtctata taagcagagc tggtttagtg aaccgtcaga 120
tccgctagcc gcaattactg tgagttagct cactcattag gcaccccagg ctttacactt 180
tatacttccg gctcgtatat tgtgtggaat tgtgagcgga taacaatttc acacaggaaa 240
cagctatgac cttgattacg ccaagctcga aattaaccct cactaaaggg aacaaaagct 300
ggagtcgcgc gcctgcaggt cgacactagt ggatccaaag aattcggcac gagcgttacc 360
ggatctgcgt ggggctggtg gtggttggtg tcctgctcat catcctgatt gtgctgctgg 420
tcgtctttct ccctcagagc agtgacagca gtagtgcccc acggacccag gatgcaggca 480
ttgcctcagg gcctgggaac tgacccagct ggtcctgaag gagaagccaa atggctgcac 540
tggccgattc tggtctccag aggaccttgg tgtttgctct cccttgaccc accccagtga 600
gtgccaaagg gcagccccaa catgtgcacc cctgcatttc ctgtcatgcc acagactggc 660
ccttgagggc agcctgctgt actggccatg ctggccagcc ccacctggag ctcagtaaaa 720
actgctgttt gattaaaaaa aaaaaaaaaa aactggaggg ggggcccgna acc 773

<210> 491
<211> 218
<212> DNA
<213> Homo sapiens

<400> 491
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aaggatgcca ggaagacgtc caccattagc catgtggcaa cctttacttc tatgcctcac 120
aagtgccttt cagagagccc caattctgct ttcccacaaa ataaacctaa tgccatcagg 180
caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa 218

<210> 492
<211> 488
<212> DNA
<213> Homo sapiens

<400> 492
ggcacgagca ggtctaatca tgcctctccc tgcctaaaac cttcccctgg ctcctattct 60
ggaagagtgt cgtagggcag catgtaaaac gccacacatg ccccgcccag cctgcctttt 120
aatcttcatc tctggccaca ctcttctagc actgcctgtc tgcccagctc ccgcccatgc 180
ccccccgccc cgcgcagctt ctgtcctgta accatcttcc ccacaatatg ccatcattcc 240
ccctgttaat agctctgccc ttgcccactg tcctatcctg gaatgacttt ccctcatcct 300
tctttcttct aatgacctcc tattcatccc tcaaaaccca gtgcaaagga tcccatgatc 360
tcctgcctcc aggcaaaatg actcaccttc ctcctcaggc caccccagct cccactattg 420
gcgatcccat catcctttgc taacacacca cctcctggat cacctgggca acaaaagcgg 480
aaatccgt 488

<210> 493
<211> 1269
<212> DNA
<213> Homo sapiens

<400> 493
gaggattctt taacaaaata gggacaatga caaggttact ggtagccctt ttattctcct 60

cattttaaa gctgagagag gtggaatcca ttagtaagat aaaaaacaaa atgtcaaaaa 120
gacaagactt aagaacaggt tgggcatgct ccaacatgac agcatgcaca ctttggggaa 180
aaatttattg gtctagccag gtgtgagcct ccattcctta atgtgccagc tggactcccc 240
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ccatcaggca aataaaaacc tgcatatttg tcacacactt tgggtctata tagaccatta 480
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ccagccaagg atcagagagt gaacaggact tggtaaatag cttctctcat ctttctctct 600
ctgccctaag caagtaaaac taaaaaccac aacaataaat aaactcataa caccctcagt 660
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aagataatgc cacttctgtc cattctggtg cccatgtcaa catgatcact aattcaaatt 900
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cggtgagtgc ttaaacattg aactaatgag attttactgt tttgaacagc tggtcaagtt 1260
tggaggccc 1269

<210> 494
<211> 858
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (848)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (849)
<223> n equals a,t,g, or c

<400> 494
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gaatctaggc ctgcttccca gcaacagtgt agatgtgaag gtaaggtgaa ccacctgtgt 120
cccttgaatt gcatgcttat ccattgtcta taaggcagct ttatctggca gtgaaattat 180
gtgtcatttc tggtgggtgg ctgggcctgc catagcaaat taccacaaac agaaatgtat 240
tctcttatat aattctggag gcaaagtctg aaatcaaagc atcagcaggg ccatgctctc 300
tctgaaggct ttagagaagt atccttcctt gcttcttcct agtttctggt ggttgccagc 360
aatccttggc attcctggac ttgcagatgc atcactgcaa tctctgcctt agtatccaca 420
tgaaattttt cctgtgtgtc tgtctgtgtc cagattgtct yctttttwatg ggggccattc 480
attggattag ggycttccct aatgcagtat ggcctcacct taatgtgatt acatctacaa 540
aaatactgtt tcaggccggg cctggtggct gaagcctgta atccmagcgc tttgggaggc 600
tgagacgggc ggatcacgag atcaagagat cgagaccatc ctggtcaaca tggtgaaacc 660
ccgtctctag taaacataca aaaatcagct gggcgtggtg gcacatgcct gtagtctcag 720
ctacttggga ggctgaggca tgagaatcgc ttgaacccgg gggcagaggt tgcagtgagc 780
cgagatcgca ccattgctct ctagcctggc gacagagcaa gactgcgtct caaaaaaaaa 840
aaaaaaanna aaaactcg 858

<210> 495
<211> 1107
<212> DNA
<213> Homo sapiens

<400> 495
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actctctcag gattaccatg acccaagagc gccaagccct ggcatggctc ttctctacac 120
ttaaggcaga acggccttga ataaggtctc tctcagcctc ggtttaccca cgaagacacc 180
taagccccag gcttgctgag cagatgacgc gatggaaagc atgtgaacct gaaggagccg 240
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aaatacccca aggataatca tgaacaccag gaagctgacg cacaccacga tcacaactgt 480
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ggttggcgtg ttccatgggg ttggccgtgt ggattacatt cacctatagc agagaaagag 1020
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tggcatgacc agtgccactc agagtgg 1107

<210> 496
<211> 1114
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (850)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (866)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1076)
<223> n equals a,t,g, or c

<400> 496
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tttgccgcaa gcaggctggt gttgccatcg gaagactgtg tgaaaaatgt gatggcaagt 120
gtgtgatttg tgactcctat gtgcgtccct gcactctggt gcgcatatgt gatgagtgta 180
actatggatc ttaccagggg cgctgtgtga tctgtggagg acctggggtc tctgatgcct 240
attattgtaa ggagtgcacc atccaggaga aggacagaga tggctgccca aagattgtca 300
atctggggag ctctaagaca gacctcttct atgaacgcaa aaaatacggc ttcaagaaga 360
ggtgattggt gggtggcccc ttcctccccc caacatcagt ctgctgcagc tgccagaaaa 420
catgcctact actaccagca gaaagggagc agagcccaga gcatcaccag gagtgcctgc 480
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gaaaaggatt cttcacagag cactctggca caccatatcg gagaaaactt gatagattag 600
ttaatggttt ttcttgaatt cgagaagcat agatctgttc tccatattgg tatgttctcc 660
ctcaaccaag atcttctaaa aagaaataat attttagtct tctgcttgag gaactgactg 720
tgaagcgacg cccagtgaaa aacatgttct tgcagcagct ctggtggcag ctgtccttga 780
ggaacctttg gtgtgtggtg ggaagctatc agaacaagaa atgtaggcat ttcccgtttt 840
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cacttgtcca gctacagtgg ggtacagtag ctggctattc acaggcatca tcatagccca 960
ctagtctcat attattttcc ttttgagaaa ttggaaactc tttctgttgc tattatatta 1020
ataaagttgg tgtttatttt ctggtaaaaa aaaaaaaaaa aaaaaaaaac tcgggngtac 1080
ttctagaagc ggccgagggc ccatcggttt tcca 1114

<210> 497

<211> 371
<212> DNA
<213> Homo sapiens

<400> 497
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agtttctgcc tccttccaaa ccaggttcaa atgcgtttcc cccctgtttg ttaatgtcct 120
gctcatccca cagcttgggg tcatcttaga ccttttactc tccctttctc ccaactcctg 180
tcaggtgtag cccccatccc ctcctagttg tattgcttgg ttgtctccat ggcatgcttt 240
cttgcagtgg tgatgtgggt cttcctgcct gtggggtctt gcccactcta gttcatgtag 300
tttaagctgc aagaaaaaga tcttcctaag tgacagtctg agcctgtcac ttaaaaaaaa 360
aaaaaaaaaa a 371

<210> 498
<211> 360
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (24)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (25)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (29)
<223> n equals a,t,g, or c

<400> 498
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ggatcatttg caaggtcttc agggaagttt gcctttgcac agtttaggaa agattctgtt 120
aattaggtga atggtataat tgatacgaca agaggattgt ttaacttaag ggaagcaatt 180
tattatgcat gcatgagaag cttctaggta tttactgacc aattgcatgc ccattacata 240
tccttttttgt attttagaga taataatcat cttatattgt ttacctccta gcccagtttt 300
tggcacactt gaaagtacta caaattgtct ttatgaaaaa aaaaaaaaaa aaaactcgag 360

<210> 499
<211> 505
<212> DNA
<213> Homo sapiens

<400> 499
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ttacctcaac ctccagaaac tggggtgccc agggcccaaa cccaacgtgt ctttcctctc 180
attgatcgca ttcagtctca tggctttaaa cacaatatca caccaaattt acctcccgcc 240
tgggcctctg ccctgtcctt gggcctcctg cattttactg cccacctgca cctatgtttg 300
gacataaaag aaactcccag cgccacctgt aatgcggcac tccgtagatc ctccaagtcg 360
gctctgtcta ctgcaactct gcccatctca gctgagggca gtgccactgt ccagtggtca 420
aaagccctgg agtgcccctg actcctgtct ttctctcaca ccctgtgtct gactcactgg 480
caaattatat tggctctacc tcgag 505

<210> 500
<211> 499
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (15)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (19)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (22)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (488)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (498)
<223> n equals a,t,g, or c

<400> 500
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ggctgagatc aggaggaggg gaaggatatg agttttccat ccatctccct ggagaaggcc 180
atgacgggct ctccaagccc tggggagatc tggcgaggga ctagccaagt cagggtgacc 240
tcttgacctg actagttttt ctaacccaca tgaacaccag ggtgcctctc tcttcctcta 300
gcccagggta gggggacctg agtgagagag agagtgagac agacagcaag attgagacac 360
gcgggccccc actggtctct gagtgggaaa ggcaagtgcg agagataaag gcctccaaaa 420
aaaaaaawaa aaacttsgrg rgtayttcta agagcgggcc gcgagcccat cgattttcca 480
cccgggtngg gttaccana 499

<210> 501
<211> 1545
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (556)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (593)
<223> n equals a,t,g, or c

<400> 501
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taaaatgatt atcttgaata caataaaagt cctaatcctt tttgtttttg tttttatgat 120
gtgtgataat attcttggta ttactcaaaa agagttgtac ttttttaaaa aattcacttt 180
ttaagttagt ataaagaata ttcagtccag tttagaaatg aacagtagaa aagtaagaaa 240
gagctagcac ttgtggaatg gggtcactct gttctggggt gccccagaga atcccatgga 300
atgcctttcc caacctcctt aatggaggta gcttctgtta taaccccatt ttacaataag 360
aaaactaagc aacagaagtt gaacagtgta tccaaggtca gaatgaataa ttgagccagt 420
atttgaatcc aaactgtctg gccccagagc tagtgttcca tatatctttt atttttctgt 480

aactttacgc ttggagaata gttgtaagaa tagtaacgtg atgtctcata tgttctttcc 540
tccatttcac tatatntata ttttggctca cttgctttat cactctatgg gtnttttgtt 600
gttgttgttg ttgttagttt tttccttgaa ccatgtgaaa acaagttaca gacatggtgc 660
tgcttataaa catttcagtg tgtgtataag accaaagata tcatcttatg tgatcagagt 720
ataattatca aaatcaggaa atctaatact gaagaaatgc tcttatccgc agtctaaatt 780
atttcatacc agtaatgttc cgtatcgctg ttgcttcctg atctttccct tccccagcct 840
ccagtccaga attcatcctg catcacacag tgcatccagt tgtcaggccc atcttggcga 900
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cttgaacccg gaggcagagg ttgcagtgag ccaagatcgt gccattgcac tccagcttgg 1500
gggagaagag cgagactttg tctcaaaaaa aaaaaaaaaa aaaaa 1545

<210> 502
<211> 552
<212> DNA
<213> Homo sapiens

<400> 502
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cagctggagg ctgagatcga aaacctctca tggaaagtgg agcgtgcaga cagctatgac 120
agaggggact tggagaacca gatgcatata gcggagcagc ggaggagaac cctgctgaaa 180
gatttccatg acacctaagt tgggatgtgg atgtgccggg gtgaggaaga tgtggctgca 240
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gccagggccc cactcctgag agacactggc aacacctctt agttgatttc tgttttcttc 360
tcttttcact ttttgtttct accagggtag aggccatgtt gaactggcct cttttcagga 420
cttttatttc cccctggatg gttgttggga gggagggaaa gtgttttctg aatggctatt 480
aatagtatta gatcattaca acttatgtaa ctttcaaagg ttgtacaatt atacaaaaaa 540
aaaaaaaaaa aa 552

<210> 503
<211> 600
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (588)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (599)
<223> n equals a,t,g, or c

<400> 503
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acagctttgc aggaggcctg tattacttta aaaggtataa atgataggtt gtgtaatacc 120
ctacattctt atcttgaact atattatcgg gggctctttc tgttttacct taatgtgccc 180
aggggactcc tgcttagctt aataggacac ccaaaaggag gaaatgcaga gttaatggtt 240
taacaaattc taaactttat tagcaatttg catttaggag aagggcagat ggtgtgtggt 300
cgaaagctca tgggactgtg aattggtaga ctttttttaa aatccagctt ttgcccctaa 360
cttttggtct cggagacctc tgtyctttaa taactagaac tgtaggccgg gcgtggcggc 420
tcatgcctgt raatcccagc actttggtag ggtgaggcgg gcggatcaca aggtcaggag 480
ttcgagacca gcctggccca gcatagtgga accctgtctc tagtaaaatt acaaaawtta 540

gccaggcatg gtgacgtgcg cctgtagtct cagctacttg ttaagggntg ggggcaggng 600

<210> 504
<211> 522
<212> DNA
<213> Homo sapiens

<400> 504
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acatgtgctc ccccgcctct gtagaactga tgatggtcat cgtgtgtgtc attgtgcaaa 120
aagcattgtc cgtgccatcc cctctccaag ggacacttct tacccctatc cttcaaggcc 180
ttctgcaaat gccattctct ccaggaaagc ctttccgcat tctcagttgg atttgatctt 240
ctcttcgaac tcccaggccc ttttgttccc tttgaggaca gattgcattc tgctttttaa 300
tctagctgtg ttttatcccc ctcagtggat ggaaggtgtc ttcagggcca gaactgtggg 360
ttcctcttcc ttctcatcag tagcatcgcc atagctcctg atttctgaac acccactaaa 420
caccaggcac tgggctaggt actttgtcac aaaatttcac tgaaacctcc cttacagcaa 480
ctcccaagag gtgggtggtg ccgtaaaaaa aaaaaaaaaa aa 522

<210> 505
<211> 573
<212> DNA
<213> Homo sapiens

<400> 505
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aggaggggac tggaagccct tccctgcctt gaaacatgaa agctgatttt ctgagcagca 120
gatacggtca gtggcaaagc tgcatctgaa gggcggcctg ggaaagggcc ctgtgctggc 180
cccgggtccg ccccacagat ccacacagca ccacctccag aaggggctggg cccggggtcc 240
tgcaggcggc acctttttggt agagtttgtt tccctggaaa atggggaaaa tgtttcaagc 300
caggtgaggg gggaagttaa cactgaaata tgtattgttt ttaaaaatca aatgcacacg 360
catggaagct gcttgtccat gcactggttt tgtcactggc gtcctggaat ccgaccgtgt 420
tggggtgcag gcgctgtcag actccggctg atcctggctc gagcacacac atctaagggc 480
caggctggtt ccgcatggtg atctccgtct tgtatgtctg aatgttggcc taaaataaag 540
attactgttg taaaataaaa aaaaaaaaaa aaa 573

<210> 506
<211> 597
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (15)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (39)
<223> n equals a,t,g, or c

<400> 506
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gaagccatgt gtagcagttc ctgccagtgc agatctggag aggagctggc ccggaaggcg 180
tggttgtgaa agcgcccttc ttatgttagg aggccttggc aaaattggat ttcttcaaaa 240
atacatgtaa aggtctgttg ttgaattgta ctctgcccct ggaagcagat acagatggct 300

gcctgctgct cggctttgct tttgcttttc ccaccgtgtt ttcatctttg ttcacttgag 360
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acaccagaag ggaggccctg gaaaattttg tgcttccaac gtggccttca attcttgctt 480
ttttgccccc crgaagcatg gggcttttga gcacacttaa aaaaaaaaaa aaaaacggca 540
cgagagtact tctagagcgg ccgcgggccc atcgattttc cacccgggtg gggtacc 597

<210> 507
<211> 594
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (15)
<223> n equals a,t,g, or c

<400> 507
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agccatgtgt agcagttcct gccagtgcag atctggagag gagctggccc ggaaggcgtg 180
gttgtgaaag cgcccttctt atgttaggag gccttggcaa aattggattt cttcaaaaat 240
acatgtaaag gtctgttgtt gaattgtact ctgcccctgg aagcagatac agatggctgc 300
ctgctgctcg gctttgcttt tgcttttccc accgtgtttt catctttgtt cacttgaggc 360
tttccccagc tggtgtgtgc aggacagttc atggtaatgt tgccctctga ggccccgtac 420
accagaaggg aggccctgga aaattttgtg cttccaacgt ggccttcaat tcttgctttt 480
ttgcccctcr gaagcatggg gcttttgagc acacttaaaa aaaaaaaaaa aaacggcacg 540
aggtacttyt agagcggccg cgggcccatc gattttccac ccgggtgggg tacc 594

<210> 508
<211> 1333
<212> DNA
<213> Homo sapiens

<400> 508
gctttttttcc aaagaaaaac cactgtggtc atttttattt ttttaattac cgaagaaaat 60
ttctgcatac ccaaccatga acaaagaaac acaaagttat ggtgagatgg aatgccagcc 120
attcacttaa gtcgttctta ggtcctcagg tgtttaagat ccttgtcctg gcaaaatggc 180
aaatgactac atatcatgga tctctgggat caccccacag tattttgaat ggtgactgtg 240
gtatccaaga atgccaaggg tgttaattaa acatctgatc tgttgctaca ctctgtccac 300
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acactcatgg gcttccctcc caggacatgc cccaccccag tgggcgtgtc acgtgccagg 480
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acctctgctt gctctccagg gaaacagatc aagagaaaat ctttgaggta tgtttggatc 660
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ccacatgata gccatcaaat taggcttgag ttcaagcgta tgatccagtg gtacttctat 780
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cgtgaaataa gtgtgatctt tgggcaaggc aggtggctca cacctgtaat cccagcactt 1200
tgggaggcca aagccgtcac ttgagaccag gaatttgaga ccagcctggc caacatggtg 1260
aaatctgtct ctactaaaaa tacaaaagtt agctgggtgt ggtggcgcac atctgtaatc 1320

ccagctactc gag 1333

<210> 509
<211> 391
<212> DNA
<213> Homo sapiens

<400> 509
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ccagaggtga ttttgccccc caaggggtat tatgcattgt caggagacca gaaagggttg 180
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ctgcagcgta cgagatggct ccatgacaca gaatgacctg gctgcggtgt tgctgaggtg 300
gaggcgtcct ggtctaggct ggtgctccag gctgcttaca gcctgctgcc tcccaaccct 360
tcccgcaagc tgaaaaaaaa aaaaaaaaaa a 391

<210> 510
<211> 182
<212> DNA
<213> Homo sapiens

<400> 510
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aatccaatct cagattgata tgtgtgcttt ttaggtataa tcatttgcat actgaacatc 120
aaatgtattc aggtattagc catctctttg aagattgtaa agagaaaaaa aaaaaaaaaa 180
aa 182

<210> 511
<211> 587
<212> DNA
<213> Homo sapiens

<400> 511
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gtggaataat cctccgtggc acgggggtg gaataatcct ccgtggcatg agggggcggt 180
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ccaggtggtt tgtagggtgg tttttactcc ttgccaaagc ccacacagcc ccgcaaggca 420
aacagtgttc aactcttttc atggctgaaa aactgggaca tcagagaggt taagacactg 480
gccagggcca cctggcaggg aagcttccgg gccttgcctg caccaggact gtccgatggg 540
gacgtcatct gcctcccaga cggtatctta aaaaaaaaaa aaaaaaa 587

<210> 512
<211> 1630
<212> DNA
<213> Homo sapiens

<400> 512
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ttacagccaa tagaactgta agtaagtcaa acttcctttc tttcagtctc agatagttct 180
tcatagcaat gcaagaacag actaatacag tatcttcata agtgaagcat gtttcttgta 240
ggcaacagat tattcggtct tgtttctttt catccattca gtcactgtgt gtcttttgac 300
tgaatacttg agtccattta aatccaacgg aatttgagaa gtggttgcct actgggaatg 360
tggattgact gtaatgggac tgatataagg tgatgtaaaa attatccctt ttgataatga 420
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tttgactcct tgaggttcta tataaagcat ttttttcttg ctaatattcc tgttgggtca 600
aataattttt aaagttactt tttatcaacc tagaagtaaa tagtctcata aatatttatt 660

tcattattat tgcttttatt atttgtaaaa tgtcaataat gaatgtgata gtttacaaat 720
aaagtttaca catctaagac tttacaattc aaatataaga gatactgaca ctaagaaatg 780
ccatgttgct aatgtgagca aacataagat tagtatacat ctgttttatt gcttctgtgt 840
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ccccgcagtg acacggagag acaatctggg cattttgggg agggagggtg cagtgactga 1560
aggactttat attgaactca gtcctgccct gtcacagctg aaaataaagc catactgatc 1620
tcggctgtca 1630

<210> 513
<211> 2139
<212> DNA
<213> Homo sapiens

<400> 513
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tgcaggtttg ttatataggt agactcgtgt catgggggtt tgttgtacag attatttcat 120
cacccaggta ctaagcctag tacccaatac ttatttttc tgctccactc ccttttccca 180
tcctccaccc tcaagtagtc ctcagtcaga cctgaattct gattccagct tggccacgct 240
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ctccatttta tctggtcatc ccactgacat ccatgccaaa gatattcttg caagktttcg 1440
ggcagaagta tgatctcaca cttaggcaat ttcagttgtc aatgacgcaa tacttgggag 1500
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Patent Application Publication

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<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

Application/Control Number: 10/575,063

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<210> 524
<211> 883
<212> DNA
<213> Homo sapiens

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<210> 525
<211> 383
<212> DNA
<213> Homo sapiens

<400> 525
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aggggtgggg tgaggggatg gagagggagg gctgcctacc atggtctggg gcttgaggaa 300
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aaaaaaaaaa aaaaaaaaaa aaa 383

<210> 526
<211> 657
<212> DNA
<213> Homo sapiens

<400> 526
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gctgaggtga ggatcatctg agcccaggga gttgagactg cagtgagctt tgatggcccc 600
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<210> 527
<211> 1901
<212> DNA
<213> Homo sapiens

<400> 527
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<210> 528
<211> 375
<212> DNA
<213> Homo sapiens

<400> 528
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<210> 529
<211> 375
<212> DNA
<213> Homo sapiens

<400> 529
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<210> 530
<211> 303
<212> DNA
<213> Homo sapiens

<400> 530
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aagttttggt aaaaacagaa aaatgttaga aaaaatttaa aaagtaaaaa aaaaaaaaaa 300
aaa 303

<210> 531
<211> 810
<212> DNA
<213> Homo sapiens

<400> 531
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<210> 532
<211> 1256
<212> DNA
<213> Homo sapiens

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<222> (1238)
<223> n equals a,t,g, or c

<400> 532
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<210> 533
<211> 657
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (19)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (22)
<223> n equals a,t,g, or c

<220>
<221> SITE

<222> (98)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (143)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (176)
<223> n equals a,t,g, or c

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<210> 534
<211> 626
<212> DNA
<213> Homo sapiens

<400> 534
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<210> 535
<211> 342
<212> DNA
<213> Homo sapiens

<400> 535
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acttgtcact aatccaccaa actctgagaa gacagcatat tttccgtcat tcccaaaaga 120
ctatcacagg caacattgag gaatgctttg ttaaactcca gggatatatt ccacatcaca 180
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ccacggtttc tttttctttt tgaaaaaaaa aaaaaaaaaa aa 342

<210> 536
<211> 808
<212> DNA
<213> Homo sapiens

<400> 536
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<210> 537
<211> 1300
<212> DNA
<213> Homo sapiens

<400> 537
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<210> 538
<211> 2092
<212> DNA
<213> Homo sapiens

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<211> 643
<212> DNA
<213> Homo sapiens

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<210> 540
<211> 1896
<212> DNA
<213> Homo sapiens

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<210> 541
<211> 3362
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1488)
<223> n equals a,t,g, or c

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tc 3362

<210> 542
<211> 842
<212> DNA
<213> Homo sapiens

<400> 542
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tccttgagtt gtttttgac actcttacct gggcttctct gtgtgcattt gcgtctggcc 240
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aa 842

<210> 543
<211> 419
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (419)

<223> n equals a,t,g, or c

<400> 543
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tgcagctttt tttcagaact gaaagtttaa attccccctt tatccttctc cttcttcacc 360
tacaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaan 419

<210> 544
<211> 1262
<212> DNA
<213> Homo sapiens

<400> 544
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<210> 545
<211> 1624
<212> DNA
<213> Homo sapiens

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<210> 546
<211> 224
<212> DNA
<213> Homo sapiens

<400> 546
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taaattggtt ttgcaaccta caatttgaaa taaaaatcac agatgtattt attccaaaat 180
agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa 224

<210> 547
<211> 1567
<212> DNA
<213> Homo sapiens

<400> 547
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<210> 548
<211> 1681

<212> DNA
<213> Homo sapiens

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<211> 697
<212> DNA
<213> Homo sapiens

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<211> 680
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<213> Homo sapiens

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<211> 1661
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<213> Homo sapiens

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<211> 1336
<212> DNA
<213> Homo sapiens

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<211> 3569
<212> DNA
<213> Homo sapiens

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<211> 2074
<212> DNA
<213> Homo sapiens

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<210> 556
<211> 2010
<212> DNA
<213> Homo sapiens

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Page 50 of 2005650

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10/537,290 PCT/US03/39526

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<210> 564
<211> 1635
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1018)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1176)
<223> n equals a,t,g, or c

<400> 564
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aaaaaaaaaa aaaaa 1635

<210> 565
<211> 1533
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (775)
<223> n equals a,t,g, or c

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<210> 566
<211> 2185
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (774)
<223> n equals a,t,g, or c

<400> 566
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aaggtatgtt tatttattat tttattactg tgaacagatt gcagtgtgtg tatgtgtggt 180
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aaaaaaaaaa aaaaagggcg gccgc 2185

<210> 567
<211> 1119
<212> DNA
<213> Homo sapiens

<400> 567
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ctataccttg ggtaattttg tgttaccaaa aaaaaaaaaa aaaggaagtg taatgtcaga 120
cacacaagaa aagcaaatca gtgttgtaag cttaaagtac aatttcaaag gtcattacca 180
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1080
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<210> 568
<211> 2608
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (2525)
<223> n equals a,t,g, or c

<400> 568
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taagagcaca cagaagtctt gatttataaa aaaataaata tataacatga caaatttact 180
gatgatcctg gagctctgag gtcaaactct ttaaatgatc agtgaaaaca taaaacatcc 240
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<210> 569
<211> 2322
<212> DNA
<213> Homo sapiens

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<222> (135)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (168)
<223> n equals a,t,g, or c

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<211> 1371
<212> DNA
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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<211> 1646
<212> DNA
<213> Homo sapiens

10234567.2

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<213> Homo sapiens

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<211> 1978
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<211> 554
<212> DNA
<213> Homo sapiens

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<210> 583
<211> 1422
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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Page 347 of 1868

<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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Page 355 of 2000

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Patent Application

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<211> 1857
<212> DNA
<213> Homo sapiens

Page 360 of 369

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<221> SITE
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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<212> DNA
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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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aaaaaaaaaa aaaaaa 676

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<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<211> 596
<212> DNA
<213> Homo sapiens

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<211> 1735
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<212> DNA
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<210> 628
<211> 887
<212> DNA
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<211> 804
<212> DNA
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<210> 630
<211> 3264
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (36)
<223> n equals a,t,g, or c

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<212> DNA
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<210> 632
<211> 324
<212> DNA
<213> Homo sapiens

<400> 632
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Application/Control Number: 10/564,579

<210> 633
<211> 765
<212> DNA
<213> Homo sapiens

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<211> 853
<212> DNA
<213> Homo sapiens

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<222> (36)
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<212> DNA
<213> Homo sapiens

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<211> 1771
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<223> n equals a,t,g, or c

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<222> (1770)
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ctcactgctt aatgagccca acaccttctc cccagccaat gtcgatgctt cagttatgtt 480
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Attorney Docket No.

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<211> 699
<212> DNA
<213> Homo sapiens

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<221> SITE
<222> (694)
<223> n equals a,t,g, or c

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<210> 638
<211> 1453
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<211> 1883
<212> DNA
<213> Homo sapiens

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aaaaaaaaaa aaaaaaaaaa aaa 1883

<210> 642
<211> 2220
<212> DNA
<213> Homo sapiens

Patent Application Publication

<400> 642
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Patent Application Publication

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Patentscope

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Patent Application Publication

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PATENT 2006GB

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<210> 661
<211> 1671
<212> DNA
<213> Homo sapiens

<400> 661
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tcgtcatcat catcttagtt ccattacaaa ttatggtgct gcattagcca caaagctatt 300
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<210> 662
<211> 1356
<212> DNA
<213> Homo sapiens

<220>

10276.60.seq

<221> SITE
<222> (682)
<223> n equals a,t,g, or c

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atttttttat ttttattttt tttgagacag agtgagaccc tgtctcaaac aaaaacaaaa 180
acaaaactac aagagttata tatacataca tatttacaca tagacacaca tacatgtata 240
catgcatatg cacacagacg tacatgtgta tatctaaaat gatcttcagg aatgcacagc 300
agaccattag ggtagccacc tcttgtggga agaggggtgg cagatcttca tatttttatt 360
ctagattttc ataatcatgt acaaatttaa aattaatttt ttgttgacaa aaccaggcag 420
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<210> 663
<211> 880
<212> DNA
<213> Homo sapiens

<400> 663
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ttccgagaat cattgtcatg tacatgcaaa acgcactgaa agaacagcat ggtgcattgt 180
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taataaaccc tattcttcct caaaaaaaaa aaaaaaaaaa 880

<210> 664
<211> 1003
<212> DNA
<213> Homo sapiens

<400> 664
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ctctgatttc tccggtttcc ataactaact gcctacactt aaaagcgttt ctttacctac 180
tcattttccc tcaggccttt ccatttttat cttgtatttt tccactcttt tggcagacct 240

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tggagagtac agagtgtaaa cacgcattct ttctgaggct ccggcgctga tgcgaataca 420
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<210> 665
<211> 1061
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1056)
<223> n equals a,t,g, or c

<400> 665
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ttggtgctgt gtttttaag aagtcctact tactggaatt ttgactattt ggatattttt 240
gtttttaaaa ggggagggga atttgcttaa tacttctaaa gatgtgaatt gataattgat 300
attaaaatag aattactctc aactcaccag aattaaattt tatatctgca tatttaacac 360
tattagctca tataaattat aagaaaaatt ttcaaaggat ctggttttaa ttttttggat 420
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gcctttaatt tgatttcaca tccacagtta taaactttgc atttaaaagg aaaatgagac 660
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acaaggttat ggtacttatc tactaaaaga aacatgcata aacatagttt ttatctttaa 900
cttcagtatt aaaatatgca gtttttttgca aagaggaaaa acatctggtc aattacgctg 960
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<210> 666
<211> 1080
<212> DNA
<213> Homo sapiens

<400> 666
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caatcactca gggtaaacga tgatgctgca tgtcttttgt gccacctcta catttctcta 180
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atccaggcca ttatactgat ataggagaga agaggtcatc tatgtcagaa ttgttttcct 600
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<210> 667
<211> 464
<212> DNA
<213> Homo sapiens

<400> 667
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gactatagga gggactggtt aggagtctgc attgctttga cttccctctc cttggttaat 420
aaacacaaat gcttgtttct caaaaaaaaa aaaaaaaaaa aaaa 464

<210> 668
<211> 1708
<212> DNA
<213> Homo sapiens

<400> 668
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tttataagaa aaaaaaaaaa aaaaaaaa 1708

<210> 669
<211> 603

<212> DNA
<213> Homo sapiens

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cca 603

<210> 670
<211> 1415
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1085)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1196)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1337)
<223> n equals a,t,g, or c

<400> 670
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tttgtcttca agtttattaa tctttaattc cggcatttct gatatattct tagttctact 120
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<210> 671
<211> 780
<212> DNA
<213> Homo sapiens

<400> 671
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cagctctgcc ttgcatcacc ctcagcctaa gggagtggga aggaaatggg gtgttttctt 180
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gcttcctctg ttccctccct cagccatcca attcttgagt tttctcactg attggttttc 720
tttctttttc cttggattaa atgtgaaagc aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 780

<210> 672
<211> 3334
<212> DNA
<213> Homo sapiens

<400> 672
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gttgtgttgt tcctggtcag tgtataacat tttttgcaac tttttgagtc actctggaag 120
acatattcac attcatgtgg cttaaactta ctccttgaaa gtcttggagg aaaatgctta 180
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attaaagtta agtggatact tagaagcaag gtttaatttt aactctgtag tttctgggga 480
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<212> DNA
<213> Homo sapiens

PATENT 09/25/2003

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<211> 2867
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<211> 3560
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<211> 1902
<212> DNA
<213> Homo sapiens

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<211> 1538

<212> DNA
<213> Homo sapiens

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<211> 2148
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

<220>
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<210> 684
<211> 2608
<212> DNA
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<223> n equals a,t,g, or c

<220>
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<210> 685
<211> 1642
<212> DNA
<213> Homo sapiens

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aaaaaaaaaa aaaaactcga ag 1642

<210> 686
<211> 1783
<212> DNA
<213> Homo sapiens

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<211> 1799
<212> DNA
<213> Homo sapiens

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<210> 688
<211> 3198
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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<211> 1606
<212> DNA
<213> Homo sapiens

<220>
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<222> (84)
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<211> 2505
<212> DNA
<213> Homo sapiens

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<211> 1271
<212> DNA
<213> Homo sapiens

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<210> 695
<211> 1748

<212> DNA
<213> Homo sapiens

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<211> 3707
<212> DNA
<213> Homo sapiens

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#07169 2003/05/29

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10/2/20 6:50:59 PM

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<212> DNA
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<221> SITE
<222> (2121)
<223> n equals a,t,g, or c

<400> 708
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acgcacgggc aacacgggat gatcagcgct acgtggtgag aaacttacct ccttttgcag 120
gacaacattt tccagtcctt ctgagtaaat caaagagaag tctcagcttg gtgattgcag 180
gtctctaatg cttatttctc tgtctctgtc tctgtctctt ttaacaaaag tctaccagcg 240
gcctcaggct cagggcctgt ctcaggtaaa agcgggttag ggtgtaataa cagtgatcgg 300
tttcattgtg tttatttttа tagctacttt ctaattatag caagtgattc tgagtttcca 360
tttaggatag taataggaag tttctttttc aagtaaatgt gcataagtaa aaggagactg 420
ctcaaaggaa aacagctggt gattgataga acaggctgtg gcattgttgg gccccagagg 480
gaagggctgt gtgagcatgc aggaaattct gggaaggcag ctaaatgcag ttgctgcatg 540
ggggccagga agcatttgga gacgtggctg ggcacagctt ggcttttgag cccaagagag 600
gcctgctggg gatgtgttgg gagccaacct acccctacca gcaggtggaa ctggttttgc 660
cactccaaaa cagagttcca gctatgggga cagccactag agagcagagc taagggcatt 720
ctaggccaag gggtcacagt ccaccctgaa ctgtgcctcc cagcctgaag ccagaaagct 780
cagggaggct agcggccctg cccaggcctc agcactgacc ctgcacccct aggcccagct 840
ggatgacccc taagagcttc ctggaatttg gatgcagggt tattctgtgt gtgctgcctc 900
tcagagcatg tcactttgac gtggacatct cgggtctggt tctggtgctg tccctgtctc 960
gccacgtgac cctggataag tcatctctcc aggccttgat ttccccatct gtaaacagag 1020
gaacccaagg aacgagtggg ctctaactgc tgcagcatat gggagatgcc aggaggagct 1080
ggctgtggca ggccatccca gtccatcaga caacttgtag tggatgaaga tgcagtgtcc 1140
atggccagaa gaaactcccg tggatgctca ggccaaggct gccagaagca cgaggagggg 1200
cagcattgag tgtcatcggg aaaaggcaaa gtgatggtcc tgaagctgcc ccatgtggcc 1260
agtccctttt tgggaagcct gaataaatcc atttcctgtg cactgtgtgg gaagccaacc 1320
cctcttcaga gcacctctga actcaacagg atcctacact tcttataggc ctggcttgat 1380
gctgacatcc ttcagcccca gggaagacct aaagatctcc aggtcttgag gcacctggaa 1440
cacctccacc tgagaccact ttaacatgat ttctctgctt gagggatttt ggaccatgct 1500
gtgtgtattc agccctaaaa catgggcgag tgcccgcttg cagttcaaat tctcagagga 1560
agttccctgt actccaccca gtgccaagtt tagtttgtgc aaatttcctt aatgtcccct 1620
cctgtacaac aggcttattt ggtgttaacc ctcatatcgg gggtctaact ctttggtttt 1680
ccagcttttg tgctggaata tcccattaaa ctgtccatgt tgggtatttt ttctttgtta 1740
gtaaacattt gttgcatatt gttgatagca ttttagattt gaagaaataa ctgacaaaat 1800
caatatcatc tgtttcatca ttacaaatag actcatagct ctttaatttt tccatttaac 1860
actttaattt tccataggcc tagattttca agaagtccaa tatctctcac ttgaagtgtc 1920
ttttccctgg agtagattgg gagatttgag ggatatctgt ccaaagatga gacagtctgt 1980
ttctagtttc ccatccagcc tgatggggcg tctacagttt ttaccacaag gtgtcgctgt 2040
tgaacagatt ctggtgcagt ctagtgcata agctgtccac ttctaagaag tgatnacttg 2100
ccgggccaaa gttcctctcc ntaagtgg 2128

<210> 709

<211> 2283
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (29)
<223> n equals a,t,g, or c

<400> 709
aaccttaagg ccaaaatcag gggcaaccng atagagaagg ggaagaaaat ttgagattcc 60
atttccagaa gttgacagga cttggtgatt aagcctaatc ccaacagaga aaaggaaaag 120
tcaaagatgc cttcccatag tttcctagtt taggaaatca gtgatgacat caattgagct 180
aatgcaagaa caggtgaagt gagaagatta acaattcctg tgctgaagat aatgaagttc 240
aaatacctct ggaggcaggg caagttaccc aacaagaagt caggctattt aagtttgaat 300
ttcaacaaca gggtcgagaa tgggagcaca tgaacactat tactcagaag agagaatttt 360
aaacctgtgg acacagtctt accctcgatg caatttcact ccatcttgag gcaactgtca 420
agagttgacc agttccattt actctcatag ttgtaaaaat tccacaaaat tgttaaagtc 480
tctgtaagcg ataactttaa acagtcagag cttttgtctt gttctgagtc atttttcccc 540
tttcctcttt gtatgccatt ctttctgtca aactatctag ttaaggaaga tatgtgaggt 600
ataaggatgc ataatataaa aaaatttttg ctattcttat taaacatttt gtcttaattg 660
taaaggtaaa gaaaagaaca ttcgactatt ctaactttag gaaaacctaa gttaaataat 720
gatttaccta tgtgactcyc cactaatttt ctctkgcaaa tcatcacccc ttaattaact 780
gacaycccca aggcagtcaa ctcaagctgt agctttaacc acagaggtta aacaattcac 840
agtcctgttg ttgctgtcag aaacccaagt tacactgtac ctttgtctaa tcaatggtgc 900
cctagtttgg tgggagatgg agaggaaggg acctgttggc aaggaaacag ctgcttcctt 960
cctgaacaag ggaaaaccag taaggtgaca gatgggcaga gcagaaaagt agccaaaaat 1020
tgctgtggct cctgtttggc aataatttct ggaactgagg cacaactgaa tattttaaag 1080
tatatcaaca attgagagag tattgtttac ctgagtgcgc caaagttcaa caagccttcc 1140
cacacgtttc ccacatttga aaaacttta agtttgcagt agtacaaaga gcttagcctt 1200
agcctatgta cagtgggcaa agactgcaag gcactgtccc atttcacttt aggattacac 1260
ccaagcaaat gcactttccg gttaaaaaaa aaaaggaaaa aattttattt tctctatagt 1320
agttatagtt gtatgactga ctagaattac tattaaaatc tcattaaaaa kgtttttctt 1380
aaaagtttac ttttatatac ttaatttgaa aagatttgtt caaactttta taatttgttc 1440
tttaatcatt ccccctccsa tccacttcag tacccagaaa actaaatatc caagaattcc 1500
tgggtaaaac agacaaccac tagatagata taactaacgt attttttaa gctgtatagt 1560
tcttcatcaa atggaaatcg gcaaccactg aaaataacat taaaaattag tgtgggcatg 1620
aagtatggaa ttttaaacat cagtttacta tgctgattaa gtcaacattt atattttcat 1680
cagaacttaa taatcccata aataaataga gctctcagtt atttaaaaaa atcaagggat 1740
aacatatgta tttagacata ttagcagcgt aaagatgtat gcttcaacac acttattggg 1800
gaaacgtctg aaaatattac tacactgaat tcaagggtat ccaaaggaac ctgacataga 1860
agttctctag aataacatca tttcagggaa tttcaaaaaa gaaaaggggt caaataggaa 1920
atagcctcaa attaattgac aaagttcagt gtttgcccca actagattat tctctctctc 1980
cactgcaaaa agaaagtctc aggatgagtg aatcacttag acgaaagttc atctagtgga 2040
ataaatggag aagccgcttg ggcaggtgac acaggagagt cggtggtagt gctgactttc 2100
gctggtgagt tacaagaaga tccggcactg ctgctgtttc catcaagggt atccgaagat 2160
acacacacac caggatctga cagctgtgca acgtcagaag aaagcatgtt ggtgatgccc 2220
tggaaaaatc tctttggctg atattcagtt tccatttcac attttctttt cactcgtgcc 2280
gaa 2283

<210> 710
<211> 2742
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (778)
<223> n equals a,t,g, or c

<220>

10/575,239

<221> SITE
<222> (780)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (863)
<223> n equals a,t,g, or c

<400> 710
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tttgcaaatg actattcaat caacatgtat aaaagttgtg gatttctttg cttttatgac 120
aaaagtggta ttgtattttt aaactgatca ctttattagg tcagagaggg tatagttcaa 180
agtgtaatta tttattgtta aattgtatat ttacaaacat tttagttttg aaccattaga 240
tatttatgta atttaagtat gaaagtttaa aaatggttca tataataata ggcatgtgat 300
aaaatgtcat gataaaagac agccaaataa atattatttc atcctactta gaaagaataa 360
ttttccagag ggaactttac tcagttttag agagaaatcc aagaatagtg ttcttctttc 420
atttttcaac atgatataat cagagaattt ggaaaactgg taaatataac ctatagtaaa 480
atggtcagga aaaatactca tttccattta tgataactga agtgacaaaa agactcctag 540
aagttacatt ttccctttgt ggtatattaa agaacaatga atataccaca ctttattcta 600
aaaaggactt ttggtgtgaa tgtaaaggat aatgatcaga tttaagtttc tttctacaac 660
cacttctaat tctattcacg tgatctattt aaaaattcct tacttcaaca tatttaaatg 720
ttgtagccat tttgaaacat tttagtccct caagatacag aaatatacaa aaaacatncn 780
agtttcagat ccagaattca gtttctccct aaagggaaat tcatcatcca atcttctggc 840
gttctttaaa ctagacacta gancctttтc atctagatat tgcatatctc atatatatta 900
tacatgcata catgttatgt tgttatgcgt tgttattttt aaaatccagt atcagtagta 960
acatatcaaa aaggaatttc taatattcca aggttctcat gttagaatag aaacatattc 1020
acaatagtgt ttaccagttt catatattta gagtagtttc acactaaaat gagtgattag 1080
gctaggcacg gtggctcata cctgtaatcc tcgtactttg ggaggccaaa caggggggct 1140
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aaaacatttt ttttttaaa ttagctcctc acagtgacac gtgcacctat aattccagct 1260
acaggggaaa ctgaagtggg agtatgactt gagctgagga gttagaggct tcagtgagcc 1320
atggtggcac cactgcactc tatcctgggt ggcagagtga gagcctgttg caaattaaaa 1380
taagtgatta ggacaaaaaa gatatagggc caaataaata gaatgcttac ccacctcaaa 1440
taaaaagaaa ataatatttg ttaatatgaa ggtgatactg gataagtgaa gtgcctagga 1500
ctttttтctt aaataatcta gtatatttta tgtgaataag ggactataaa gtagggagat 1560
cagcaggact gtaaaagtgg gtgtgggaga agaaagtttg ctagtcaaac ttggtttaaa 1620
ttgactgcct ttgtaatagc atgtggctga atgttttgat ctatttataa tgaatatttt 1680
aaggatttgc taatttttga aaattggcaa gaaatactca ttttttтcct gtcttgaggt 1740
atgccaaaaa taaaacttgc tagaataaaa aaaaatgaaa gtgaaggaat gtcttgtgtg 1800
tgctaaaaca cctccactta aagagtttga tatccactag aaaatgttgt ttctttaaaa 1860
aggggacaaa gggcatttga tgcttctcac ctttcacggt tgtgacaatt ctcttagaca 1920
tcttaaattc tctaagtgga gatttcttat attcttcaca gtacacctgt ttaaaaattg 1980
tagtccacag aaatctgaaa ctacaaaaga aacttttctc aagatgataa ctcacaagga 2040
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ggcaaactgg aatgtggtac ttgaccatac ttagtcagtg caggaaaaac aacaaaaaaa 2280
tcttcagaaa ctttcttacc attgacaggg gctagtgtcg atattccttg tggttttccc 2340
ttattgactg tatctacgcc atcacatagc aaaatgtaca caacagcaga aagtagacat 2400
tttactcata gtttctgcaa aatctgaata aagataaagt ttttctatta taaataatgc 2460
caaagatgtg gtcttataga tgtatgcatt ctaaggatca gggaaaggct gtgaaataaa 2520
actctaagtt gaacaaaatt caagtagttt atcttttaac agaaatatct ccataaacca 2580
tatcgatata aaggtgaaca ggggttggac acagtggctg aaagcccata attccagtgt 2640
tttgggaggc caaaatggga ggatggcttg agaataggag ttggagacca gcctgggcaa 2700
catagaaaga cctcatctct acaaaaaaaa aaaaaaaaaa aa 2742

<210> 711
<211> 1294
<212> DNA
<213> Homo sapiens

<400> 711
caaatatgta ttggtggccc tttatatttc cgatatttct tgcagcaaca gaaatttgcc 60
cttcattcag tggagataac ttcagtgtgt tctccaagag tagtatataa gaagacacag 120
cacataaaag aaaagatgag tgtgctaaat gagttcataa attacagata ttcaaatgat 180
tgaaactaaa tcatctatat attgactcta aaattgtagg actatcagaa tattttaata 240
aataatatat gtgaaaatct atgtacaaaa gatatccaat aatttcatgt ataagaacat 300
ttgtttattt aatctagcag ggttttattc attttgataa aatatctctg taacaattaa 360
ttgatataca ttagttttat acaagtatat gttagtttat aagatacata atacatttgg 420
tcacaccatg taactttcat tttaaaatac ttagcatctt ctctttgttt tgtctttgca 480
taaaatgttc atgtaactat agttaatcat gtacattagt tgagatatct tgtttctagt 540
taaatcattc tttagttcat taaagtaaaa gagattttag ttgtgcccaa tggaaaagga 600
ggaaagaagg atcttgttta gttacgttgc ctaagaggaa gtagtagctt ctgtggctgc 660
tgctataact aagaatatcc tagaatttaa gttgttgcca tagaaattta ttgtttaacc 720
atttttacat gcttacccaa gaggagactg aaatagttaa tataacatta acataacaag 780
attctttgtc ttaacagtat ttatattata tgtacttaga attgtcagaa attttaatgt 840
gttaaagtta tattggtgat tataaagaca gtttgttaat ttagcttttt cggatttcta 900
atgttattta gtaggtagag agaggtagat gaatttgcaa gggtgaacat ggaagttctg 960
tttataatgt gttagtgtaa tattgaaaat agtggtttct aattcagcag tcctgctaat 1020
ttataaatct tatttttatt tgtatactta tttaaagaaa aatggaaata taaaatgtgc 1080
taaatattta attttagcat gtgttaactt ttgatacatt ttctctatta ttgaaatcta 1140
ttcatttaat ctaagagatg aactctgcat gatatcaaca gatatagcac atgcatactg 1200
aagattttta agttacatga tttgctttaa catggccctg aaccataaag agggctaaat 1260
taaatacctt tcttataaaa aaaaaaaaaa aaaa 1294

<210> 712
<211> 930
<212> DNA
<213> Homo sapiens

<400> 712
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aagtagaaaa agaaaaaagt gaaaaggaaa caactagcaa aaagaatagc cataagaaaa 120
ccaggccaag attgaaaaat gtggatcgga gtagtgctca gcatttggaa gttactgttg 180
gagatctgac agtcattatt acagacttta aggagaaaac aaagtcaccg cctgcatcta 240
gtgctgcttc tgcagatcaa cacagtcaaa gcggctctag ctctgataac acagagagag 300
gaatgtccag gtcatcttca cccagaggag aagcctcatc attgaatgga gaatctcatt 360
aaagtttatt ttctccaatt tcttagtcac ttctgtccta ccatgcaaat acacagatta 420
tgccaagagg taccacattt tcatgacaga tacattcatg cacaatccat aatttgagtt 480
ttacataaaa tagaaatttg ttagaatttg ttagatttta ttgcaatgat gcctaccaaa 540
catttccaga cttaacattt tggtctctgc agttaagtgc catgaaaatg tggttgaatt 600
attcattatg cagtgttatt ggtaagtgta ttttcacttt tagtttagtg aattctaaca 660
cataattctt gaattctcta ctattggcat gtaacgaatt taaatttttt ataacatagt 720
gcaagctgcc taaatatgta ttatttgaga attgtgaaac agatagttat atgtatacaa 780
gtcaaagaac aacttaacta ttgctgcaac aggtttttct taatggttat cctcttaaat 840
acacctgctg gtacttggtg tggttaaata ggaaaattgt tattaaataa agaatttgta 900
tgaactttta aaaaaaaaaa aaaaaaaaaa 930

<210> 713
<211> 1393
<212> DNA
<213> Homo sapiens

<400> 713
ggcacgagca accgtgggcg agctctgggt gtgcgggcgg cctggcgcgg cgctccgctg 60
tgtcagcgtg ttatgatgcc gtcccgtacc aacctggcta ctggaatccc cagtagtaaa 120
gtgaaatatt caaggctctc cagcacagac gatggctaca ttgaccttca gtttaagaaa 180
acccctccaa agatccctta taaggccatc gcgcttgcca ctgtgctgtt tttgattggc 240
gcctttctca ttattatagg ctccctcctg ctgtcaggct acatcagcaa agggggggca 300
gaccgggccg ttccagtgct gatcattggc attctggtgt tcctacccgg attttaccac 360
ctgcgcatcg cttactatgc atccaaaggc taccgtggtt actcctatga tgacattcca 420

gactttgatg actagcaccc accccatagc tgaggaggag tcacagtgga actgtcccag 480
ctttaagata tctagcaaaa actatagctg aggactaagg aattctgcag cttgcaaatg 540
tttaaaaaaa taatggccaa atttttgggg tcctccccaa aaatgttaag tgaacctaca 600
gttagctaat taggacaagc tctatttttc atccctgggc cctgacaagt ttttccacag 660
gaatatgtat catggaagaa tagaggttat cctgtaatgg aaaagtgttg cctgccacca 720
ccctctgtag agctgagcat ttcttttaaa tagtcttcat tgccaatttg ttcttgtagc 780
aaatggaaca atgtggtatg gctaatttct tattattaag taatttattt taaaaatatc 840
tgagtatatt atcctgtaca cttatcccta ccttcatgtt cccagtggaa gaccttagta 900
aaatcaaaga tcagtgagtt catctgtaat attttttta cttgctttct tactgacagc 960
aaccaggaat ttttttatcc tgcagagcaa gttttcaaaa tgtaaatact tcctctgttt 1020
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tggctgtttc ctaatgaaac atgtagtggt tattatttag agtttatagc cgtattgcta 1200
gcaccttgta gtatgtcatc attctgctca tgattccaag gatcagcctg gatgcctaga 1260
ggactagatc accttagttt gattctattt tttagcttgc aaaaagtgac ttatattcca 1320
aagaaattaa aatgttgaaa tccaaatcct agaaataaaa tgagttaact tcaaaaaaaa 1380
aaaaaaaaaa aaa 1393

<210> 714
<211> 1913
<212> DNA
<213> Homo sapiens

<400> 714
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gcaaatattt gcatcatgtc tcactggata ctgcaaccat ctccttgctg atctcactgc 120
ttttcagcct atttcacaac ccagcggttg aaatagttct tttaaaacat aggtcagatc 180
atgtcatttc tcaaacctac caaatacttc catttcactc agagtaaaat acaaagtcct 240
tataatggcc atacacaatc tgccccctcc ccatctcctt acccatctca cttcatgtcc 300
tgctattttc tcctttgttt gtctctgctg cagccacact ggccttctta ctgttctata 360
aatatgccag gcactttcct gcctcagggt ctatgtactt cccatgcttt ctgctcttcc 420
agatttctgc agagctcatt tcctacctcc tttatgtctt tacttgttca tcttctcatg 480
cgactttcct accatgttta attgcaaact cctgccccca acactccatg tctctctttc 540
taccttattt ttctccatca tgcttatcac tcaccaacag acctcactta tttggtttat 600
tgtctgtctg cccctactga cagacagttc ttttatctat tttgctcatt gctatatact 660
tagcacctag atagtgcctg gcacatactt ggtgcttcaa atacacttgc tgaataaagt 720
atgggcatgc tatgaaaagg catagatagg taaggacttt tgggtccaga ttgtgagaaa 780
gtcattggca ccaagatgtt ttcactcaat tttctgagtc ctattacaga atcctggcca 840
aaagtataat acaccaaaga accagaatta tcataggtga agtaaaccag gccaattgtt 900
ttctagatcc tcttaggtat ttttgtgaat tatacatgtt atgggaaatt ttaaacttgt 960
ctatactaaa gcaaattaga atgctttgat aaagcttatt ttggatttct cagtgcttct 1020
ccttggtcac aaaatatggc aaggggttct agaaatagat ttagtggggg aaggaaagaa 1080
actaacatgg aatcgagtga cttctaaatt tctaaacccc ttacatctca tttaaacttt 1140
tgacaacttt tgagtcaaga aacattattc cagctatgaa tatatacaaa ttgaggttcg 1200
ggcctggtga aatgactcat gctggtaatc tcagcacttt gggaggccaa ggcaagagga 1260
cggcttgagc ccaggatttt gagaccagca taggcaacac agcaagactc tctctctaca 1320
aaaaattaaa aatttatctg ggcatggtga cacacacctg taatctcagc tactcaagac 1380
gctgatctgg gaggatcact tgagcctaag aaatcaaggc tgcagtgagt catgattgtg 1440
ccacagcact ccagcctggg tgacagagca agaccttgtc tcaaaaaaca aaaaaaaatc 1500
aaactgaggt tcagagagaa atattaattt ctccaatttt gcacagccag caaatggcag 1560
gcttagaatt ccatccacta gctaactgag tagtatagga cctagaccaa gcttgtccaa 1620
cccacggccc acagactgca tgtggtccag gacatctttg aatatggcct agaacaaatc 1680
tgtaaacttt cttaaacatt atgagattgt tttgcgattt tttttaagct catcagctat 1740
cattggtgtt agtgtatttt atgtgtggcc caagacaatt tttcttccaa tgtggcccag 1800
ggaagccttg aacaccctga cttagacttt atagctaata gcttgacaaa ttaggtgact 1860
taggagaaat catttaatat ttgtctcagt tgtctgccaa aaaaaaaaaa aaa 1913

<210> 715
<211> 2502
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (52)
<223> n equals a,t,g, or c

<400> 715
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acatggtggc aggcgccgtg gcagggatcc tggagcactg cgtgatgtac cccatcgact 180
gcgtcaagac ccggatgcag agtctacagc ctgacccagc tgcccgctat cgcaatgtgt 240
tggaggccct ctggaggatt ataagaacgg agggcctatg gaggcccatg agggggctga 300
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taaaaaagac attgagtgat gtaatccacc ctgggggcaa tagccatatt gccaatggta 420
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<211> 1276
<212> DNA
<213> Homo sapiens

<220>
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<222> (788)
<223> n equals a,t,g, or c

<400> 716

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<210> 717
<211> 1279
<212> DNA
<213> Homo sapiens

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aaaaaaaaaa aaactcgag 1279

<210> 718
<211> 1086
<212> DNA
<213> Homo sapiens

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<210> 719
<211> 1276
<212> DNA
<213> Homo sapiens

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<210> 720
<211> 2757
<212> DNA
<213> Homo sapiens

<400> 720
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<210> 721
<211> 1547
<212> DNA
<213> Homo sapiens

<220>
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<222> (94)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1166)
<223> n equals a,t,g, or c

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<211> 1614
<212> DNA
<213> Homo sapiens

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<211> 937
<212> DNA
<213> Homo sapiens

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WO 2004/063355 PCT/US2003/040479

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<213> Homo sapiens

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<212> DNA
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10234650 - 20070329

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<210> 734

<211> 1079
<212> DNA
<213> Homo sapiens

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gaaaaaagtt tgtgttaata ttgcattatt aaagcacatg tttaaagata attattagat 480
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<210> 735
<211> 2166
<212> DNA
<213> Homo sapiens

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ttcttccttt ttgaatgata ttttcaatga gtatttttga atgacatttt caagtctggg 180
ctgacagttt tttctttcat cacttttaag atgtcagtgg ttaaatgttg tctttttgct 240
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<210> 736
<211> 632
<212> DNA
<213> Homo sapiens

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aaaacttgtg tagtttgtcc tgtgtatctg tttctcatga ggagaccggc tttctgtggc 180
ccacgtgaac actgagtaag aaacaaaaga ctgtggtctc caggacacag tgtgtgtttg 240
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ttctcacttc ccagtctcac tactggatca gctcttagga gccaggagag ttcactgctg 420
tggctaggat agaaaagggc agctagtgcc ccagggtaga tcttggaaaa tatttttgg 480
gaaaaatgta attaaggcca cccctaaaat agatactgta tctggctgta ctatactaac 540
agtgatttgc ctgcatgtgt ttgatagaga tttctaccat gtactgcttg gtgctggata 600
gtctatcaca gcaaaaaaaa aaaaaaaaaa aa 632

<210> 737
<211> 1104
<212> DNA
<213> Homo sapiens

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<222> (453)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (781)
<223> n equals a,t,g, or c

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gagatttgga atgtgatggg cagttctaca tttattctct ttttttcctt tcttttattt 240
agtccttttcc tttctccctc ccccacaacc tccttatatt tcttcttcat ctactctcgc 300
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gattcatatt attgactcat ttagaaaaca gaaagtgaac agagacaagt ttttaaggag 600
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caaaatgaag caattagggg tttctccaaa acaagagtct tcagtaatta aaaaaaaaaa 1080
aaaaaaaaaa aaaaaaaaac tcga 1104

<210> 738
<211> 924
<212> DNA
<213> Homo sapiens

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ctgttgtagc tttaactcgt gtgcacgtgt gacacataaa gccccaagag aagggctgcc 180
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gcacctacgc ggtgacctac gtgcccctga cggccggcat gtacacgttg accatgaagt 780
atggtggcga actcgtgcca cacttccccg cccgggtcaa ggtggagccc gccgtggaca 840
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aaaaaaaaaa aaaaaaaaaa aaaa 924

<210> 739
<211> 1492
<212> DNA
<213> Homo sapiens

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gtatcaatag ttcatttcct tttactgttt tgtttggttt aactcattga cctattgaag 180
gatatctggg ctcattccag tctgtgaata atgctgctgt ggacattcat gtgcaagttt 240
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<210> 740
<211> 638
<212> DNA
<213> Homo sapiens

<400> 740

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aaagattgct gagcaaaaaa aaaaaaaaaa aaaaaaaa 638

<210> 741
<211> 944
<212> DNA
<213> Homo sapiens

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<222> (864)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (939)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (944)
<223> n equals a,t,g, or c

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<210> 742
<211> 408
<212> DNA
<213> Homo sapiens

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taaagtaatc agatcacttt gattctttta agttttcaga atttcttttt tccacaggta 180
attttggaga aaataattac caattaactg ataataagca cgctgtcctc tgctgtaaaa 240
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atttattaat aaagtcatta ctttaaaacc aaaaaaaaaa aaaaaaaa 408

<210> 743
<211> 1687
<212> DNA
<213> Homo sapiens

<400> 743
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aaaaaaa 1687

<210> 744
<211> 1266
<212> DNA
<213> Homo sapiens

<220>
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<222> (641)
<223> n equals a,t,g, or c

<400> 744
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caaaaccata aatgtaatag atttatttta acaaggtacc aaagtactgt atgtttaaga 180
aatttatcat ttttcaactt cctaatttat ttctggatgg tgacatttta atttaaataa 240
acagcagctg acagtatgac actggagttg ttaatccaac tattcttgtg cctcatgtgg 300
gtgttaggaa ttaaacttac tatttgctaa gcagcttacc tgacaagagt cagatttttt 360
ccccctaaag aaaggactgg cactgtagct gtatgcttta ttataaatga tcaatttgtt 420
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gcattgtttc catctwccag aataagacac accacaccac acacrcacac acgcacacac 540
acacacacgt taaagctaaa attctaataa taaaactgat taacttttaa acatctagcc 600
atgttctcat caaagcattc agctttagta gagatatagg nttatttta taatattcta 660

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actcga 1266

<210> 745
<211> 2902
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1059)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1064)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2902)
<223> n equals a,t,g, or c

<400> 745
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ctgaaccagc ctccaccact tcttcgtsca acactgcctg ctgccccggc tcttcaccgg 240
cagcctcctc cactccagca gcaggctcgg ttcatccagc cccggccaac tttaaatcag 300
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gtgttgtcca cggttggtgg tcaacagcca ccatcactta ttggaattca gacagattca 420
cagtcctcac tgcactaaaa attaaattgg acacagctgc agtaactttt caccccatca 480
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agttcactag actaaaatgt tttacaacaa aaagcctcca gttagcctcc tttctagagt 660
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tctaaggccc taatttatgt tttgaaagat catgtgttcc caaagtattc cctattgttg 1980
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accacaccgt ggggttacct cn 2902

<210> 746
<211> 1328
<212> DNA
<213> Homo sapiens

<400> 746
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ctgtgaggtt tctggggagg cagagaggca gggactttgg ggccttagtc accatccatg 180
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ccagggtttg gggagcagag agagccaaga agttgaccac gtgtgatttc cagcccttcc 660
cactgggact tgacttccca ggtcaaggag tccgtctcat tctggctggt cgagtgacca 720
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aaaaaaaa 1328

<210> 747
<211> 590
<212> DNA
<213> Homo sapiens

<220>
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<222> (27)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (37)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (58)
<223> n equals a,t,g, or c

<400> 747
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tccgttgcca caaaggaacc cttgtactac ccacttattg tcacacctta tcacccatcc 240
tttcaccacc ttccctaacc cctggaaatc actaatcttc actgtaattt tgtcatttca 300
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atgggtttcc cctccacagt atgatgctct tgaattccat ccaagtttta ttatatgtac 420
cgatagtttt tcgtttttta acagattgct gtggatgtac cagtttgtct gactgctcac 480
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tgaacatttg tgtataaaaa aaaaaaaaaa aaaaaaaaaa aaaactcgag 590

<210> 748
<211> 752
<212> DNA
<213> Homo sapiens

<400> 748
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atggagctag aaagatggca tttggcctcc tctgcaaatc ccagctcaca attctacctc 120
cagggaaaga ctgaatgtac tgcctcagct ccattcaaaa acagttctgg gaaagattcg 180
gggtggcctg ctttgattat atgtgcatcc tcttctgcac ccccatctcc ttatttctct 240
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ggcagcccta actagactac ctgattgaaa taagcagcag cttttcttgg ccgcaaaggg 360
gaatgctgct cacagaataa gagagcaggg cagagcttcc aagtgtctac acagcctttc 420
tttcccttat gtaaataaat taattcatta ttaacatatc tcaacracac gaatctgacc 480
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tgactttggg caaataattt accttctctg gaagcaaata tgttaatttc ccttttctat 600
aaaatgacaa tggaactagc atcttaataa ttttattgtg aatattgcat tatgtagcat 660
atttcaatgc ccagctcagg gtcagacaca agatagacac tcaataaatg ctgattttcc 720
tttcaaaaaa aaaaaaaaaa aaaaaactcg ag 752

<210> 749
<211> 419
<212> DNA
<213> Homo sapiens

<400> 749
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ctttatgcaa aatggctcct gtgagggctg caagctggag ggtggtgcag gccttgggcc 120
acagggaggc gcctgtggaa taggggggagt tcatgcaccc ctttttttccc cagaggggct 180
ggactcaggt tagtttgggg gtgggggctc ctgcactttg ccacaggcac ggggagggtt 240
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ctgcccttgc ccccttcccc agaacaaaac atgttgatca tgtgcaatat ttcttactgt 360
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<210> 750
<211> 949
<212> DNA
<213> Homo sapiens

WO 2004/063355 PCT/US2003/040826

<220>
<221> SITE
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (940)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (947)
<223> n equals a,t,g, or c

<400> 750
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aactctgtct taatgtaaat gtaactattt ttccttcaag tgttgactag ggagtcggtt 180
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gattttgact gtgcacattt cctctagttc atgtctgtag tccctataga atgatctgta 780
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gaagttctgc tgttttgtta taatgcctga tacacatctt gaataaagtc ttaacatttt 900
tcttttaaaa aaaaaaaaaa aaaaaaacyc gagggggggn cccgtancc 949

<210> 751
<211> 440
<212> DNA
<213> Homo sapiens

<400> 751
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aggaggctgg ctggaataaa gggatgggca ggctggcatg ggggcagccg ctgcccctgc 180
ctgggtgttg ctgtgtattc ctgccggcca ggggccactg ccaggaccac gcctcccttt 240
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tggctgtttt tgaactgcct ggaacctaag accctgaatt cttttccccc ccaaggggaa 360
aatctatatg gaaaacattt attttaaaat acaggatgaa gtgaattaaa agatttaaat 420
gcaaaaaaaa aaaaaaaaaa 440

<210> 752
<211> 1504
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> SITE

<222> (283)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1396)
<223> n equals a,t,g, or c

<400> 752
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cgta 1504

<210> 753
<211> 1635
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (24)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (34)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1615)
<223> n equals a,t,g, or c

Patentscope

<220>
<221> SITE
<222> (1630)
<223> n equals a,t,g, or c

<400> 753
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aataataaat ttcctgtgaa gttaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaanaaaaa 1620
aaaaaaaaan aaaaa 1635

<210> 754
<211> 2141
<212> DNA
<213> Homo sapiens

<400> 754
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<212> DNA
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<210> 761
<211> 1460
<212> DNA
<213> Homo sapiens

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ggattaaaaa acttcccaag ggcacggttt catttcattc ccattcagat caccgttttc 180
tgggcacggt agaaaaagaa gccacttttt ccaatcctaa aaccactagc ccaaataaag 240
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ttgaatttag tattagtgac aaacagaggc ctggacagca ggttgcaact tgtgtgcgac 420
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gttatgttta aaaaaataaa 1460

<210> 762
<211> 2653
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (23)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2630)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2636)
<223> n equals a,t,g, or c

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ctttgcctct atgcttgtca gctcatgacc agtcctagaa gaggagtcga gacataagcc 360
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tgtgtgtcct gtggcattgt cagagttatg ttgaaatctt atttgaaaat gttagcaact 2340
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tcctaaaaat ggaatagtgg gatgtagtgc ttaatggaaa ctgctaaatc tttttctaaa 2460
aactaacagt ggatttttaa aatatattgt tttttgtgta tttcatttgt cctttgtatt 2520
tatctaaaag ggttgatatg attttatatc ttgctctcta ttcctaatag tattatgact 2580
tcttatttaa aataaataac aattgccggt ttctgtttaa tcagttttcn taaagnccag 2640
ggtttcacca tag 2653

<210> 763
<211> 896
<212> DNA
<213> Homo sapiens

<400> 763
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gcagaccacc atgtgctatg ggaagtgtgc acgatgcatc ggacattctc tggtggggct 120
cgccctcctg tgcatcgcgg ctaatatttt gctttacttt cccaatgggg aaacaaagta 180
tgcctccgaa aaccacctca gccgcttcgt gtggttcttt tctggcatcg taggaggtgg 240
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ctgctgtggc catgaaaact gtggcaaacg atgtgcgatg ctttcttctg tattggctgc 360
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atggaatgta tctctgtttt ctatcctctt ggctcttggt ggaattgaat tcatcttgtg 600
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tccccacagt ctacttttac aaacgcctgt aaagactggc atcttcacag gatgtcagtg 840
tttaaattta gtaaacttct tttttgtttg tttaaaaaaa aaaaaaaaaa aaaaaa 896

<210> 764
<211> 2070
<212> DNA
<213> Homo sapiens

<400> 764
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ctgccttggt gatcccgggc tgacagccag agagcacagc ggctcagctc ctggagagtg 180
agggttgaag aaagcggagg gcagccgcct gcgcccgctg gctcccatta ggtcggttcc 240
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cactccatgt tcatgggctt ctacctgctc agcttcctcc tggaacggaa gccttgcaca 420
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cactggactc cgaggtggtt cagacaagac agaggggagc agtggccatc atcctcccgc 1680
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actttaaaaa aaaaaaaaaa aaaaaaaaaa 2070

<210> 765
<211> 569
<212> DNA
<213> Homo sapiens

<400> 765
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agaagaatta caacatgtta tggattttta agtggcaggt attgtaactg ttttttgtgt 120
gcaaaatact gagtaaccac tgggaaaata tttcagatga aagggatgac aaaagcatgt 180
tgcgctttgc atcagcaagg cattgacttc tgaaaaaatg atctgaaaaa agtttcaccg 240
tttgtcttct tacctcattt taagaagcat gtgaaaatgg gatactatag actactgaga 300
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ttatataaac aggaaaatac atttgacact ttatggaatt ttatgagact ttttgtggga 420
acagaaggtc ttcaaattgt aaaatgtaaa gattgctctt tttattaagt ctttaacagg 480
gatgtatttc attgtatgtt ttgggtatgg ctttggaata aatcatttta tattttaaaa 540
aaaaaaaaaa aaaaactcga gggggggggc 569

<210> 766
<211> 1123
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1067)
<223> n equals a,t,g, or c

<400> 766
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cagaagggag gcacttgaga atttcggacc caagtttctt caccatgggg atgtggtcca 180
ttggtgcagg agccctgggg gctgctgcct tggcattgct gcttgccaac acagacgtgt 240
ttctgtccaa gccccagaaa gcggccctgg agtacctgga ggatatagac ctgaaaacac 300
tggagaagga accaaggact ttcaaagcaa aggagctatg ggaaaaaaat ggagctgtga 360
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gcccacatca tacagtttga aatgaaactt tgccacaacc agc 1123

<210> 767
<211> 1255

<212> DNA
<213> Homo sapiens

<400> 767
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tgtccaagcc ccagaaagcg gccctggagt acctggagga tatagacctg aaaacactgg 180
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<210> 768
<211> 1965
<212> DNA
<213> Homo sapiens

<400> 768
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tcagagtctt ccagtgaaga gagcgactct tcatccatca gtagtcatag ctctgcctca 1860
gctaatgatg taagaaagaa gggacatggg aagaccagaa gtaaagaggt agataaattg 1920
atcagaaacc agcaaacaaa tgataggaaa aaaaaagaaa aaaaa 1965

<210> 769
<211> 1901
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1425)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1447)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1497)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1504)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1515)
<223> n equals a,t,g, or c

<400> 769
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agaagttacg taaaaaatca ggtcttttgt ggcatattct atcgcaatcg atgagatcac 180
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<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<212> DNA
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<211> 1443
<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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<222> (66)
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<210> 778
<211> 2667
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2659)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2662)
<223> n equals a,t,g, or c

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<211> 1356
<212> DNA
<213> Homo sapiens

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aattttcttt tctaaaaaaa aaaaaaaaaa aaaaaa 1356

<210> 780
<211> 850
<212> DNA
<213> Homo sapiens

<220>
<221> SITE

Page 464 of 5656

<222> (18)
<223> n equals a,t,g, or c

<400> 780
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<210> 781
<211> 1018
<212> DNA
<213> Homo sapiens

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tcactactta attaactcct actttggcct aagaactgag gaaatgggtg agcaaccgaa 180
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<212> DNA
<213> Homo sapiens

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<211> 1136
<212> DNA
<213> Homo sapiens

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<211> 2405
<212> DNA
<213> Homo sapiens

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<210> 785
<211> 2937
<212> DNA
<213> Homo sapiens

<400> 785
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<210> 786
<211> 1709
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (365)
<223> n equals a,t,g, or c

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<210> 787
<211> 1885
<212> DNA
<213> Homo sapiens

<400> 787
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aaaaaaaaaa aaaaaaaaaa aaaaa 1885

<210> 788
<211> 1078
<212> DNA
<213> Homo sapiens

<400> 788
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atgtgactct gatgaagatg aagacttcaa gaggcaggat gcagagatga aggaaagcat 360
ccctttgca gtcgtgggat catgcgaggt ggtgagggat ggcgggaacc ggccgtggag 420
aacccacatc actgcgattt cctgaacctg cgacggatgc tggtgcagac acacctgcag 480
gacctgaaag aggtgacgca cgatctgctc tacgagggct accgggcccg ctgcctacag 540

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<210> 789
<211> 1553
<212> DNA
<213> Homo sapiens

<400> 789
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gaacaccttc ctttttttagc agcagcaggc gctctttagt catttctccc ccagttcgaa 180
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gaggactcag cacccctag taggctcctc cacccagagc cactgcaagc cccaggccct 660
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<210> 790
<211> 1258
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1180)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1240)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1243)

<223> n equals a,t,g, or c

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cattttccat gaacttttaa aagtcccctc atacatgttt acagatgtcc atagaaacgt 420
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atctacataa tacagctata aaaataatta tgtagttcta taattaccga catgaagaca 540
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaan aanaaaaaaa aaaaaaaa 1258

<210> 791
<211> 346
<212> DNA
<213> Homo sapiens

<400> 791
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ctgatcatgt ccgaagaagt acaccacttt cttaatcatg cagcttttaa aaatctcctc 120
agccccacac ttgagggtct ctctcctaga ttctaatgtc tagccctaca cgaatgcagt 180
atgctgccct tgatgtgata ggacaacaga ggacctgcac acatgctact ggtcctgact 240
gtgttttcct tccataaaca ctgttctggc aagctggttt tatgtgctgc tggaccattt 300
gcttatgttt gsacaataaa ccagraatta aatttaaaaa aaaaaa 346

<210> 792
<211> 541
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (141)
<223> n equals a,t,g, or c

<400> 792
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caggagtgta acatcaagca ccgaggacat gtgcgggaga gcgagatgtg cactgaggga 120
ctgttgkccc ctgtggctgt ngagrgtgac tacgggggcc cacttgcctg ctttacccac 180
aactgctggg tcctgaaagg aattagaatc cccaactgag tatgtgcaag gtcgcgctgg 240
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aaggactttc ttaaatgaaa atggtttttc cccctacaag taaacagtaa taaagaagag 480
aattattcct agtgcagttt gttttcatgg tcttaatttt tgctaagact ccactgtttt 540
t 541

<210> 793

<211> 464
<212> DNA
<213> Homo sapiens

<400> 793
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ttgaagaatg cacagtgaca aggggagtag ctattgggaa cagggaactg tcctacactg 120
ctattgttgc tacatgtatc gagccttgat tgctcctagt tatatacagg gtctatcttg 180
cttcctacct acatctgctt gagcagtgcc tcaagtacat ccttattagg aacatttcaa 240
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rtctcagact aaccatagta ataatacaca tttctgtgag tgctgacttg tctttgcaat 360
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akgraataaa tttgcagtta rgtcttaaaa aaaaaaaaaa aaaa 464

<210> 794
<211> 453
<212> DNA
<213> Homo sapiens

<400> 794
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ggattcacat gccctaacta aacctacctt gattttctca gacagcacag gcaggcaata 180
aagcgtcaca gattgtcccc taaccccatc cagccatgtg tatgggtgtg ttttattcaa 240
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Patent Application Publication

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<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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<212> DNA
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<211> 586
<212> DNA
<213> Homo sapiens

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<211> 246
<212> DNA
<213> Homo sapiens

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<210> 807
<211> 1701
<212> DNA
<213> Homo sapiens

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<211> 2593
<212> DNA
<213> Homo sapiens

<220>
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<211> 728
<212> DNA
<213> Homo sapiens

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<210> 810
<211> 1697
<212> DNA
<213> Homo sapiens

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<210> 811
<211> 2047
<212> DNA
<213> Homo sapiens

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<210> 812
<211> 1805
<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<210> 815
<211> 2272
<212> DNA
<213> Homo sapiens

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<210> 816
<211> 2811
<212> DNA
<213> Homo sapiens

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<210> 817
<211> 1758
<212> DNA
<213> Homo sapiens

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<211> 1918
<212> DNA
<213> Homo sapiens

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<211> 1817
<212> DNA

<213> Homo sapiens

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<222> (23)
<223> n equals a,t,g, or c

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10/576,959

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<210> 820
<211> 960
<212> DNA
<213> Homo sapiens

<400> 820
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atgtggggtg gacagagggt ttgctgggct ggctttgctt tccctgctgg ggccacagct 180
gtgttaacca atgaggtctg ctgccaggtg tgaacaagca tgtctctacg aatgaacgaa 240
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tgtgttttca caggtaggct tagcgtcctc tcagagtgta gtgccaggtc ctggtgccac 480
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tgccagatgc agatttttc ccccttactg tttcaatgac ctttatttta aaaacacata 780
gcttgaaaat ttatttttat actgatatta gtttggatgt gccacttttg gcaccaaacg 840
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<210> 821
<211> 636
<212> DNA
<213> Homo sapiens

<400> 821
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gtaggctggt tgaagtacag aactcagagg aaaaaagaaa ttaaatttta gctttctgga 180
gagcagcccc tctctggcac catcaaacac ttctttgttt cccttcaact tggaactctt 240
caaacatcag gggttgtgag ggtttggcca ttcttttatc ttgggtccat gtgagtgaca 300
gaaatggtgc ggcctgggaa agatctccct cctttacatt ttctcttctc cctcctcctc 360
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ccaggacagg agatgccaaa tctaatttat ctcactgagg gcctttgaga aaaacgcttc 480
agggccaggc tcagtggctc atgcctatat aatcccagta ctttgagaag ctgaggcggc 540
agatcacttg aggccaggag ttcgagacca gtctcgtcaa catggcgaaa ccctgtctct 600
acaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 636

<210> 822
<211> 1095
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (14)
<223> n equals a,t,g, or c

<400> 822
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gccttcctgg gccarcgtgc aggcaacccc actggggcca gagcatcctc tccgtgagty 180
ctcatagctt ggatctaacc ctggtcatgt tggatttcca ttcctcctgg ccttaagttt 240
ttttttctt gtttgtttgg ttttttttt ttggagatga agtgcagtgc agtggcacaa 300
tctcagctca ctgcaacctc cgcctccagg gttcaagcga ttctcctgcc tmagcctccc 360
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tkgttttttt aaattttatt agaagtgagt ttcaccatgt tggcctggct ggtcttgaac 480
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caagggtata actagtcctg attcccaagc aaggggccaa aggtgtcagc caggtagatc 660
atgcttttcc tttttgcacc tgttgggtct tcaaattctt tctttggtaa tccccattgt 720
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agtggccttc tgtctctccg tggtttggat gcagtgccca cgagcttgcc tgagtgcaca 960
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catcagaggc cccag 1095

<210> 823
<211> 513
<212> DNA
<213> Homo sapiens

<400> 823
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aagctccatc tatgtaaata tttttgaaca attttgcaca agtacagggc cacataccta 180
tttgttataa acccgacgtt gataaaatgc actcttagta taattgggtc ttgttttgat 240
cctggcagtt tcatattggg atttggcagt gagttcaaca gaataagcat tatcctcttg 300
aggcccatct aggattgaac taaagggctt ctacaatatc cacatgatca tacaattagt 360
tctctctctc cctctctttt ttttgtgctg tgatagtgta actgaatatg agctggttgc 420
cagggtattg tggtagaata ataccctgca gtaaacagtt aatcatgcag cagaactggc 480
ttgatttaaa aaaaaaaaaa aaaaaaactc gag 513

<210> 824
<211> 796
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (755)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (762)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (773)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (789)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (792)
<223> n equals a,t,g, or c

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aatttcacca cttaacatcc tattattttg cctattcccg tcaaatcttt atgcatgtgt 120
atttacactg ttataaacat ggtgtgcaaa ctatttgttg ttgggctatt ttcacctcac 180
atcaagactt gaaaatgccc ccaagtttct gtatatttct gtttctgttc taatgactta 240
catggtcgca tgatagtcat tgtgttacag tggcatatct tatttgatca ttcctgtctt 300
ctggaaccat tacgtttgtt ctaattttta gctcctgggt aacacctcaa tctgtgtctt 360
ttatgaatat gtcactttgc ttcttgttgc cccaggaata cataggcacc agaggccacc 420
ttgatagtgt tttgtgtggc ctgttaggct gagtctaggg atcactggga attagctttg 480
ggaaggtggg catcttaggc ccaggctgat gaacttcaat tttactgtat tcttcatcag 540
ccattggacc ttcctttgac tacagcccca atgcttttct aatttggctg aaaatattta 600
catttataaa aaattawtgg ctgggcacaa tggktcacac ctataatccc aacgctttgg 660
gaggttgarg tgggaggatc acttgagccc aggagtttaa aaccagccta ggcaacatag 720
caagacccca aagctaccaa aaaaaaaaaa aaaanaaaaa cncgaggggg ggnccgggac 780
ccaattcgnc cnatag 796

<210> 825
<211> 2238
<212> DNA
<213> Homo sapiens

<400> 825
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ggtacaatgg ggacagtgtg gcaaaaataa aatcacttcc caaagatttt cagtcagaaa 120
gctgaaaaat catttttcct acctttttgtg tatttgcctg ccagagaatt ctgttctgcc 180
ttccacctca cagatgtgct ccagatccac agaaaagttg gtccatagga gaaaaatggc 240
aattgaattt tatgtatttg ctttctttgt tttgatagaa ataattccct cctccttgtc 300
tgcatatctc atgactcctg ccttccaaat acataggttc acattctcaa tatgaaatct 360
tataaactac atattttaca gcagccacct cagcagagaa gtgctcctga catctctttc 420
accatcgatg cgaataagca gcaaaggcag ctgattgctg agctagaaaa caagaacagg 480
tgagactttg tagacgtgct ggcttgtttg atcaatgtgc gcattcctta ataaactatg 540
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catgagaaaa cggcgtgtgc atgtatgtgt atagttctga gatatcaatg caattaatgt 720
tgcccctcta gacggtctca cttccctttt tctgagatac ttaattttgt tcaagagctt 780
ctagtacagg aggaccctcc tgggtactag gtagaaggtg tctctaccac ccagaaacag 840
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aggatagaaa tagcttcata aatgtgacac catgactcca tcgcctttga aactactgct 2160
ctactctgac ccccagggag atgtgctcac atcagagctg gaataaaaaa atttaaaaat 2220
aaaaaaaaaa aaaaaaaa 2238

<210> 826
<211> 499
<212> DNA
<213> Homo sapiens

<400> 826
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aacctgtcct tgttttatgt attttctctt tctttcctgt ccagttttat tcctctcata 120
gtaactgcta aaaaaatgtc agttcctgtc actcttccac ccctttttctc cctctccccct 180
gcattgtggt ctgggccttg gtccactagc aactcccctt aggtgttgct taatctgcct 240
catggccaaa gccaatccca ttcctgtccc ccgctaccca agggactccc agtctgtatg 300
cacaaggcgg gatgtgaagt ctggatgtgc aagaaaccca gctgtaagaa agagcttccc 360
tcggcttggc atggtggctc atgcctgtaa tcccagcact ttgagaggtc aaagtgggag 420
aatcacttga gcccaggagt tcaggactag cctgggcaac atagcaagat ctcacctcta 480
caaaaaaaaa aaaaaaaaa 499

<210> 827
<211> 788
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (20)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (41)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (61)
<223> n equals a,t,g, or c

<400> 827
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nccacagggg gaagcactgg gactcatcag gaggctgagg gagagaggga aaaagggagc 120
ggggagaggc aggaaacttt attgtgattt tcatgcatca gaatgtgcta ggcagagtaa 180
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taaaaatata aaaattagcc aggcatgatg gtgtgtgcct gtaatcccag ctactcggga 660
ggctgaggca ggagaatcgc ttgaacccgg taggtggagg ttgcagtgag ccaagatcgc 720
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aaactcga 788

<210> 828
<211> 3011
<212> DNA
<213> Homo sapiens

<400> 828
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ctgtttcatc aaatcaatcc agtcagaaca aattaatgct gttgcatgga ccaacttggg 180

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aacagagctg taccagtaca acatcctcca gatgaatgct attccagcag cacaagttat 480
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gctatgaatt ctaaagttcg gcaaaccaat tcatcataaa atccaaataa tcttgtaacc 2760
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aaaaaaaaaa a 3011

<210> 829
<211> 1445
<212> DNA
<213> Homo sapiens

<400> 829
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caaggagcca gtgctggtcg tgtccttcgt cgtcgggggc ctcgctgtaa ttctgccccc 120
attgagcccc tacttcaagt actccgtcat gatcaacaag gccacgccct acaactaccc 180
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<210> 830
<211> 1003
<212> DNA
<213> Homo sapiens

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caagtcagag taagcctggg atgagacttc agagctgctc ttctcagact gcagctctgc 180
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ctgatgtggt attattaggg attgaagagt tcccctgagc atgtttggtt ttctagatac 360
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cagattttgg aatatttgcc ttacacttac tagttgagca ccccaaatcc gaaatctgaa 480
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<210> 831
<211> 1901
<212> DNA
<213> Homo sapiens

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tggggacctg gggtggggag gcagagggtc actttacata ggattaagtt cgaggtggct 540
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PCT/US2003/039819

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taatttaatt ccccttccct tatttttatt tatttttgta ctgtgctgat tcaataaaat   1800
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attttaaaat cagaattagt atatatactt acacacatac t                      1901

<210> 832
<211> 1901
<212> DNA
<213> Homo sapiens

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gttgagtttc ttctaaagag gaagccttgc ccagcaagga ccagtgagac agccggatct    180
tggagacaat tacaagacgg ggagtgagac tcctgattgc tctggaagcc tgctgatttc    240
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<210> 833
<211> 1901
<212> DNA
<213> Homo sapiens

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taatttaatt ccccttccct tatttttatt tatttttgta ctgtgctgat tcaataaaat 1800
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<210> 834
<211> 1177
<212> DNA
<213> Homo sapiens

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taccaaacac cagtggatca aaatatttaa acatgcagtt gctgggtgta ttatttcact 180
cttgtggttt tttggcctca ctctttgtgg accactaagg taaataaaaa tgcatatttt 240
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ctcatttttt gcacaatttt gcaaatactc tcataaataa atgtctcaga agtagtatat 660
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aactcaggag gcgaaggttg cagtgagccg agatcacgcc actgcactgc aggctgggca 1140
acagagcgag atccgtctca aaaaaaaaaa aaaaaaa 1177

<210> 835
<211> 1731
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1657)
<223> n equals a,t,g, or c

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<210> 836
<211> 1098
<212> DNA
<213> Homo sapiens

<400> 836
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<210> 837
<211> 1122
<212> DNA
<213> Homo sapiens

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 1122

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<211> 829
<212> DNA
<213> Homo sapiens

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<222> (8)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (20)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (45)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (826)
<223> n equals a,t,g, or c

<400> 838
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<211> 1227
<212> DNA
<213> Homo sapiens

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Patent Application Publication

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<211> 650
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa 814

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<211> 1059
<212> DNA
<213> Homo sapiens

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<211> 968
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

Page 501 of 504

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<223> n equals a,t,g, or c

<220>
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<222> (963)
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ntnaccct 968

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<211> 990
<212> DNA
<213> Homo sapiens

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<211> 968
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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WO 2004/063355 PCT/US2003/040526

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<212> DNA
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<211> 1952
<212> DNA
<213> Homo sapiens

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<211> 1076
<212> DNA
<213> Homo sapiens

<220>
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<211> 561
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<211> 1018
<212> DNA
<213> Homo sapiens

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<211> 892
<212> DNA
<213> Homo sapiens

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<210> 858
<211> 651
<212> DNA
<213> Homo sapiens

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Replacement Sheet

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<210> 864
<211> 1262
<212> DNA
<213> Homo sapiens

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<211> 388
<212> DNA
<213> Homo sapiens

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<221> SITE
<222> (388)
<223> n equals a,t,g, or c

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<210> 866

<211> 408
<212> DNA
<213> Homo sapiens

<400> 866
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<210> 867
<211> 3014
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (619)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2968)
<223> n equals a,t,g, or c

<220>
<221> SITE
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<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2998)
<223> n equals a,t,g, or c

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<210> 868
<211> 1572
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1516)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1561)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1567)
<223> n equals a,t,g, or c

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ncccaantta ac 1572

<210> 869
<211> 1207
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1206)
<223> n equals a,t,g, or c

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<210> 870
<211> 839
<212> DNA
<213> Homo sapiens

10076360.060504

<220>
<221> SITE
<222> (833)
<223> n equals a,t,g, or c

<400> 870
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<210> 871
<211> 1332
<212> DNA
<213> Homo sapiens

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aaaaaaaaaa aa 1332

<210> 872
<211> 1978
<212> DNA
<213> Homo sapiens

<400> 872
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10474.20056.60

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<212> DNA
<213> Homo sapiens

<400> 879

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<212> DNA
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Patent Application

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<210> 884
<211> 1648
<212> DNA
<213> Homo sapiens

<400> 884
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gtgaagatgg catttctcac tgattattgg aaaagcacta gaagagccac gtgctggagc 240
cattgtccag ccttgccctg gaggagcagt gtctggcttt gtccctagat tggtccactg 300
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gcccttgaag atcatcagca gtgactccac agggcagctc cacctcctga tggtgaatga 480
gacgaggccc aggctgcaga aagtggcctc atggcaggca catcaattcg aggcctggat 540
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agtttttga aaaaaaaaaa aaaaaaaa 1648

<210> 885
<211> 1058
<212> DNA
<213> Homo sapiens

<400> 885
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tgcccaatag tataagggaa ctcaagggaa aaggaaacac acgcaaaaac tattttaaga 180
ctttctgaac tttgaccaga tgttgacact taatatgaaa ttccagacag ctgtgattat 240
tttttacttt tgtcattttt catcaagcaa cagaggacca atgcaacaag aacacaaatg 300

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cgagagttat aactactgta gtataaatat aggaactaag ttaaacttgt acatttctgt 420
tgatcacgcc gttatgttgc ctcaaatagt tttagaagag aaaaaaaaat atatccttgt 480
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atggtcattg aaccataact aggactttat cagaaactca aagcttgggg gataaaaagg 960
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gatattctat gtgtttacct caattgaaaa aaaaaaaa 1058

<210> 886
<211> 1332
<212> DNA
<213> Homo sapiens

<400> 886
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ctgaggagga tataactctg tcctttgaat acccctgtag aacatcatgc ctctcttagg 180
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tggtgacagt ttcatgtgtt ttttttttt tttcctgtgt gagtgtgatt ttgctcaaca 660
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<210> 887
<211> 2010
<212> DNA
<213> Homo sapiens

<400> 887
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cacctctgtc tgttgctgac gttgggggggc ttacacaccc acctcatctc cgtgcacagc 180
catgactggc cctgccggca gctggggtgc aggtaagggt ctctctcata gaggggagct 240
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gtcaccctga gtacacccct ctgattgctc tgctgtcaag aagcacgttt ccaccagctg 1920
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tatttttttt gaaaaaaaaa aaaaaaaaaa 2010

<210> 888
<211> 2059
<212> DNA
<213> Homo sapiens

<400> 888
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cacctctgtc tgttgctgac gttgggggggc ttacacaccc acctcatctc cgtgcacagc 180
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ttatttttt tgaaaagaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2040
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<210> 889
<211> 1284
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (47)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (277)
<223> n equals a,t,g, or c

<400> 889
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gagtgtggtt ggagttgggg agccaagggt gtgtgccggt ggccggggtt ggggtctccg 180
ccgcgccctc cggccggctc ccgctcactg cgctggctcc tccgcaggat gcagggtgcc 240
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aaaaaaaaaa aaaaaaaact cgag 1284

<210> 890
<211> 1288
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1283)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1285)
<223> n equals a,t,g, or c

<220>
<221> SITE

<222> (1287)
<223> n equals a,t,g, or c

<400> 890
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gggaaagccg cgggaagggt actccaggcg agaggcggac gcgagtcgtc gtggcaggaa 120
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ttgatcccag ctctatacta ccntngna 1288

<210> 891
<211> 1980
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1356)
<223> n equals a,t,g, or c

<400> 891
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gaacaactct ccagtgaacg ggaatagtag ctgtcaaatg gccttccctt ccagccagtc 120
tctgtaccgc acgtccggag ctttcgtcta cgactgtagc aagttttgac acaccctmaa 180
agccgaacta aatcgaaccc caaagcagga aaagctaaag gaacccatca aggcaaaatc 240
gaaactaaaa aaaaaaaatc caattaaaaa aaacccctga gaatattcac cacaccagcg 300
aacagaatat ccctccaaaa attcagctca ccagcaccag cacgaagaaa actctatttt 360
cttaaccgat taattcagag ccacctccac tttgccttgt ctaaataaac aaacccgtaa 420
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<210> 892
<211> 2501
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (521)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (548)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (550)
<223> n equals a,t,g, or c

<400> 892
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aacaggtttt agatgattcg tttcatttct aacagaacca gttgttcaaa actattgtct 180
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ggggtgagca caaagaaatt caggagaaga aagtacattc atgtaattca aaattgttat 360
ctctatcata agatagtaaa aagcctttgt tcagattttt tattgtgagc agtgttgtat 420
tttttgttaa tgtttcaagg ggataggttg atattttgat atcacttaga accgagtcgg 480
taaactacat atttatcttt gatcaactaa gattctgttt ntaaagaaaa gaggacatct 540
ttggctantn atgattacgt aacagtgaat ggcaggtgcc atatggatcc ttggagcaca 600
gacggacatc aaccagcaag tatttctcag attctaccct aaaatatgac agtatgtcag 660
gtgtggacta atatatgtaa tagctttcaa aaggaactga acaactagca agtaaagagt 720
aatttatatt aaaagatccc aataatagat ggactatggc aagaacctct gaactagtct 780
ctctgcttct tctctacctc tttacagtgt attatctaca ctgcaatcaa aatcttcctt 840
ccaaatgtta agtaactgtt caatggcttc ccatgggact cggaataaaa gctcacactc 900
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caaatgcctg gatcaaattc aatatgattt taaagccatg agaccttctc attcttggtt 1680
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aataatatcc aaatgtgaaa gtaattaata atattgtagt tttaattccc ttggtatttc 2100
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<210> 893
<211> 672
<212> DNA
<213> Homo sapiens

<400> 893
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agacccctgg ggggggtggg gcattccgcc cacccctttc ccccatcact tctcgcctgt 120
cagtgattcc atgtttcgta acgggggatt ctctgccttt ttgtatcaaa gaacaagcaa 180
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cagcgtttgt ttgtttgttt ttttttttt ttctgaaggt gggacagtca cttcctcctc 300
cctccccacc cctgtcgcat ccacgtgcga cctggaggac tggtcagaac cgttactgtg 360
aatgagtgaa gatcctggag gaccctgggc cccaggccag ctcccatcgc tgggggacgg 420
tgaacggcca tgtgttaatg ttacgatgtt tttaaaagac aaaaaaaaaa aaaaaacctc 480
aaaagttttt ttaaagtggg ggaaaaacat ccaagcactt taattccaat gtaccaggtg 540
aactgacgga gctcagaagt tttcctttac accaactgtc aatgccggaa ttttgtattc 600
tgttttgtaa agatttaata aaagtcaaaa aacttgcaaa aaaaaaaaaa aaaaaaaaaa 660
aaaaaaaaaa aa 672

<210> 894
<211> 1947
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1947)
<223> n equals a,t,g, or c

<400> 894
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caagtccttg tagaagcttt tattaaagtc atgctaaatc acaagaattg acatttgtac 120
caatatctga aacttcttca tgtttttttca ataacataca gcttctgcct gtgtagatat 180
tatgccatca gttggttctc aaaagtattt taagtgcttc agatgtgtgt tcccattata 240
ttttgaaaac atgaaaaatg ctttaatgca tgtatgtacc agcagtggtt acttgcatgt 300
gtagtgtttt tcaagaggtc tgggtcttaa caaaatgttt tcctttatct cagtgctctt 360
ctgcctcttt ttgttggtgt ccttgagaac aatacacctt ctattccttc attggttaca 420
cctttcctgt gacatttagc gagtttcaaa cttacttcca tatgaggcta agaaacctca 480
aawttcagga attgggaaaa ataaaattag cacttgcaga agtagcagca gatgggaaaa 540
tgccttgatt gacattttct ttcagcattt aaaatttttg gcatttttaca gcttcatgac 600
aaacagtttt gtgcccatac cttagaaaat gtggtgctga gttaaataaa ggctgtttga 660
gcactggagc agaaaaatgc attatttgca aactggtgga taattttgtg ccttctcttc 720
tggccaccaa gccagtgtag aaacagcaaa aatgtcataa aaattcttat atttaaaaca 780
aaaacaaaag caaaaacaaa cattgaatta aattaagttt tgtaatttta aactttaaaa 840
acttctactg aaaatatttc cgccaaatgc catcaatatt ttagactgta cctcgtttgc 900
aaaactgctt tgagagggaa gagtggacaa ctcccatcag ccttattctc ttgagaacta 960
tattttggtt cctagtaaca gcctttccaa agctctactc ttggttttta ttactcataa 1020

US 2002/0004570 A1

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agactacagg ttgatttagc ttgatagctg aaatttgatg gaaaactgat ttccatttag 1200
tcttaccaag tgttgcttct ctcttactag acagatatcc acttagtaaa atctaaagca 1260
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ataattggtt gtgccaatgt gtgagggatt tacctttagg ctctctgtca ccagtgattt 1440
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gcctatgaga tgccaaaatc acacctttag agagcacctt gctctaatag gtgatgcatg 1680
agcaaacagt gagatttgaa ggggttttaa cataatttag aatgtgaaaa aaatatcaat 1740
tcatatcttt caagtactaa cccctcaaaa aagcccacac atacaaaata tgtgatgtga 1800
taccactttg tcttttaggt ctttaagtaa ctgaagttaa gcacagaaaa aaaaatcact 1860
tcatggaaat ttcagtaaga aacccaaact tctaaaaatt gcttgcagat gagctaaaaa 1920
aaaaaaaaaa aaaaaaactc gggggtn 1947

<210> 895
<211> 2311
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (2301)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2311)
<223> n equals a,t,g, or c

<400> 895
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tgtgtaagag ctatattgtg tattttatta aattaatata tagttgtgtt gcaaaaatat 180
ttgggcttat attgtaaatg gcaagtgttg ccttggtagc tgtcgaactc tatgagtttt 240
gtttttttcct gcttcctttt ccccatggag tgtgggaagc agtgcctcag agcaaagtct 300
cttgtttaat gtatagtcta ccaagtacta cagtacataa tctgttcaaa atgtgtttga 360
gtgagctgat ggagctaact gaaaggtcaa aaattacatc catcagtcat ggttatgtgc 420
aagtccttgt agaagctttt attaaagtca tgctaaatca caagaattga catttgtacc 480
aatatctgaa acttcttcat gtttttttcaa taacatacag cttctgcctg tgtagatatt 540
atgccatcag ttggttctca aaagtatttt aagtgcttca gatgtgtgtt cccattatat 600
tttgaaaaca tgaaaaatgc tttaatgcat gtatgtacca gcagtggtta cttgcattgt 660
gtagtgtttt tcaagaggtc tgggtcttaa caaaatgttt tcctttatct cagtgctctt 720
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tcaaatttca ggaattggga aaaataaaat tagcacttgc agaagtagca gcagatggga 900
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atgagcaaac agtgagattt gaaggggttt taacataatt tagaatgtga aaaaaatatc 2100
aattcatatc tttcaagtac taacccctca aaaaagccca cacatacaaa atatgtgatg 2160
tgataccact ttgtctttta ggtctttaag taactgaagt taagcacaga aaaaaaaatc 2220
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aaaaaaaaaa aaaaaaaaaa nctcgggggt n 2311

<210> 896
<211> 2311
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (2301)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2311)
<223> n equals a,t,g, or c

<400> 896
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gtagtgtttt tcaagaggtc tgggtcttaa caaaatgttt tcctttatct cagtgctctt 720
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gttggtggta attcagcagt caggactcta agcttttata gttgaattga ggaaatctcg 1920
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gaagcctatg agatgccaaa atcacacctt tagagagcac cttgctctaa taggtgatgc 2040
atgagcaaac agtgagattt gaaggggttt taacataatt tagaatgtga aaaaaatatc 2100
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tgataccact ttgtctttta ggtctttaag taactgaagt taagcacaga aaaaaaaatc 2220
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aaaaaaaaaa aaaaaaaaaa nctcgggggt n 2311

<210> 897
<211> 779
<212> DNA
<213> Homo sapiens

<400> 897
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ggtacctttc ctctatggca ttatttttctt gcatttctca taaaggggag gatgcatccc 120
aactgaatgg ctcactggca tgtcttttat gtgttcagtt gccattccta gctttggaaa 180
gtttctatct gtccatgtgt atacaagtca atgccccatt tttgtttttc ttttaaccga 240
ggtgtagata aggaaaaggg acatttttaa ttacttaata accggaaatg cagatgtgta 300
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gcaaggaatt ttacagttga cttctctgaa cctagcttta ccacagtgat taaatcctat 420
ttagaaaggg gaatctgatt taaatgtgtg attccttgta tttgctccta tcacaaagat 480
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ctaggccttt gacacctgat aatatgagag caattggcca gccaatagcc ataagcccag 720
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<210> 898
<211> 715
<212> DNA
<213> Homo sapiens

<400> 898
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gacgagttcc tccagaggat ggggcagctt tttgaatgtg tgctctttac tgccagcttg 120
gccaagtatg cagaccctgt ggctgacctc ctagaccgct ggggtgtgtt ccgggcccgg 180
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<210> 899
<211> 2053
<212> DNA
<213> Homo sapiens

<400> 899
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gctgctgctg ccttttggca gcttgtacag gctcagctcc tccctcacgg tggcctcttt 180
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<211> 396
<212> DNA
<213> Homo sapiens

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<210> 901
<211> 916
<212> DNA
<213> Homo sapiens

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tctggaagag gaatgatcaa tgatgacact tattccaagt tctcagcctc acagagcaat 180
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taaaaaaaaa aaaaaa 916

<210> 902
<211> 1860
<212> DNA
<213> Homo sapiens

<400> 902
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aatgttctga aaaccctaaa gcaatctaca tgcgtatcat attagtaaga catttatttt 1800
gttctgagtc cttccatgtg ggccttttaa gagaatcctc aaatataaaa aaaaaaaaaa 1860

<210> 903
<211> 1490
<212> DNA
<213> Homo sapiens

<400> 903
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gatgaagatg aaggggact gtttggaagt aaaaaactta agtcaggtaa aagttccaga 120
aatctgaaat acaaagattt ttttgatcca gttgaaagtg atgaagacat aacaaatgtt 180
catgatgatg agctggattc aaacaaagaa gatgatgaaa ttgctgaaga agaagcagaa 240
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caacataaag aaagcttgaa aagagtgacc tttgctttac cagatgatgc ggaaactgaa 360
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ccgtggcagc ttcaggggga agtgacagca cagaagaggc cagagaacag cctcctggag 540
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<210> 904
<211> 783
<212> DNA
<213> Homo sapiens

<400> 904
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ccggtccagc agctagtatt aaattctctg ttgctagctt ggacctctct cgatatctag 480
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aaa 783

<210> 905
<211> 1900
<212> DNA
<213> Homo sapiens

<400> 905
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ggggaatcgc actcatagaa ttattttcat ttgtaaatat ttggtatcag gccaagcaag 180
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US 2003/0224369 A1

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tttttagaga tgtttcttca atcaaaacaa gataaagtta aaaaaaaaaa aaaaaaactc 1860
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<210> 906
<211> 1900
<212> DNA
<213> Homo sapiens

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tttttagaga tgtttcttca atcaaaacaa gataaagtta aaaaaaaaaa aaaaaaactc 1860
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<210> 907
<211> 732
<212> DNA
<213> Homo sapiens

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tgagggttgg ggagaggaag ccatcatctc attacctctg tcagtgcagg ggtggctgct 660
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aaaaaaaaaa aa 732

<210> 908
<211> 802
<212> DNA
<213> Homo sapiens

<400> 908
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taaaaaaaaa aaaaaaaaaa aa 802

<210> 909
<211> 846
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (6)
<223> n equals a,t,g, or c

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atgaaaacat ttgtaaggct gcaacataat attaaaatgt gaataaataa atgttctgat 420
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caatttattt agcttaagtt ccaacttact gttcttatta taaattgcaa agcaacctgt 780
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PCT/US2004/036459

<210> 910
<211> 1434
<212> DNA
<213> Homo sapiens

<400> 910
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gccgtggcca tgggacgtgg aggtggaagc gagggtcatc ataggtctgc acactcgggt 660
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<210> 911
<211> 761
<212> DNA
<213> Homo sapiens

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ccagctactg ggaaggctaa ggctggagga tcttttgagc ccaggatttt gaagctgcac 660
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa a 761

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<211> 441
<212> DNA
<213> Homo sapiens

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tttgttgtat aaactggttt aatacatttg gaacatagtt ggattacatt catttcctgg 180

gaaagctagc ttaccataca ttcaagttta taaaacaatt tgccataggc aaagccattt 240
aaaaagttca ttctgaaatt atttcattta cctacagtga aataattgtg aactaagtag 300
tctttctgaa aactgttggg ttctaggcat tcctgagaaa ttgaaagtgg ctacctttca 360
tgtcaaaaat gttgatctat tataaataaa atgtttttgc atatgttttt gaaaaaaaaa 420
aaaaaaaaaa aaaaaaaaaa a 441

<210> 913
<211> 452
<212> DNA
<213> Homo sapiens

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ataattctgc agtggtagaa atttaacagg ggaattttat ccataactat caatttcata 180
ctttacctag ataaccagaa ttatgtgact tgtttgttga aagtaacatg cgttgtatga 240
cttgtttgtt ttttattgaa gtttgcatct caaatgataa tttaaagttt ttgttagtga 300
aagtagggca gtgaccacac ctttatataa ctattattac cttgattaat tgctacattg 360
taaaagaaaa tattttctac aattacagaa tcctcagaac aactctgaaa acaaatgagg 420
tattatcccc aattaaaaaa aaaaaaaaaa aa 452

<210> 914
<211> 1699
<212> DNA
<213> Homo sapiens

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catggcatcg aattgtgtag aggtgactga taaatacaag aaggaaagaa gaaagagtgg 180
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gcatgagaca tagcattact aattggctga ggaatatcaa agttagtatc tctaccctat 300
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<210> 915
<211> 1612
<212> DNA
<213> Homo sapiens

WO 2004/063355 PCT/US2003/040756

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<220>
<221> SITE
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<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1607)
<223> n equals a,t,g, or c

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aattgctttc ctcagcctgc aattgtgtct tcattctgat tagtttattc catttagatt 240
ttaagaatga tagttgatga ctgccttttt cccaatgtta caatagtaga aatgtggtat 300
cttacatttt ccaaacattt tcttctcctg ggctttcctg taccgttcag tgatggagag 360
ctcacagttc ctattgagat atttattttc attactatcc ttacatagaa cgcatttcca 420
gaacttttc cttccatkca acttatagct cctctttaaa aacaaaatta ttctatactc 480
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<210> 916
<211> 963
<212> DNA
<213> Homo sapiens

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aaa 963

<210> 917
<211> 2234
<212> DNA
<213> Homo sapiens

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<220>
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<222> (2228)
<223> n equals a,t,g, or c

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gcccgtacag caagaccctg gtcctccaaa cgtctgaggg taaggccctt cagcagtatc 240
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aaaaattnct gcgg 2234

<210> 918
<211> 1661
<212> DNA
<213> Homo sapiens

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tgccttccca gatgagctgt gcaaatagat ggcggccatg agtggaattg gaaacgaggt 180
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<211> 533
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<220>
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<222> (528)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (529)
<223> n equals a,t,g, or c

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aatctgacca cttaaatcta agcatattag atcattttat gctagaaagt cctgaatgat 180
gtgactttcg ttcttgtaaa acacctcttt ccatagattc atggcccaaa cagtatataa 240
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<210> 920
<211> 2099
<212> DNA
<213> Homo sapiens

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<220>
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<222> (2091)
<223> n equals a,t,g, or c

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gaagtagcaa agtctgaaca acactgagaa ctacacagta aaattagcac ataggattta 1980

ttatcctttg ttgaatgagt atatgagtat atgatgatgc tgctgatgat gatgacaatg 2040
accacgatga tttaaaaaaa aaaaaaaaaa ctcgaggggg ggcccggtan ncaagcgcc 2099

<210> 921
<211> 1861
<212> DNA
<213> Homo sapiens

<220>
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<213> Homo sapiens

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<212> DNA
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Patentscope

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<210> 933
<211> 1830
<212> DNA
<213> Homo sapiens

<400> 933
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gcatttttct ggggagaggg tcctatcatc cccacccttc cgcacacagt taagagctgc 180
cctctatggg agccaggctc tttcccacag aatgtcagca ggagcttgga agatgatccg 240
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aggtccacca ggcatgccgg ctctcccctt ctctcctgcc tggcccttct gtcctgcagc 480
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aatgagaggg ccagtctgtg gcatactggg gggccctgga aagactggta cccaggagat 1740
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<210> 934

<211> 1022
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (476)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1010)
<223> n equals a,t,g, or c

<400> 934
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tgtgtatcca gaatatgtgt cttcacctga atatttaatc tttatattta caaaaaaata 180
agttccacaa gatggacaaa aatggtccat gatatttagc ttaaattgta acctttttgtt 240
gtgtatataa aacttccttg gaagaaaata accttattgt tttcttaaag ctaaacagaa 300
taggattggt actcattaat tatgtcttgc aaatattttc taaaaattca accactctcc 360
taaaatggtg tttaaatatt ttgtagggca gaatatgcat attgcctgtt agcaagtaat 420
aattcattct catagagaaa tgggttttta cccatggaag taatcttttt tttttntttt 480
twtttttatt tttttttttat tattatactt taagttttag ggtacatgtg cacawtgtgc 540
aggttagtta catatgtata catgtgccat gctggtgygc tgcacccayt aactcgtcat 600
ytagcattag gtatatctcc yaatgctatc cctccccccct ccccccaccc cacaacagtc 660
cccagagtgt gatrttcccc ttcctgtgtc catgtgwtct cattgttcaa ttcccaccta 720
tgagtgagaa yatgcggtgt ttggtttttt gtycttgcga tagtttrctg agaatgatgr 780
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agtattccat ggtgtatatg tgccacattt tcttaatcca gtctatcatt gttggacatt 900
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gg 1022

<210> 935
<211> 1077
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (476)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (490)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1036)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1040)
<223> n equals a,t,g, or c

<220>
<221> SITE

Footer Sequences

<222> (1052)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1062)
<223> n equals a,t,g, or c

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tgtgtatcca gaatatgtgt cttcacctga atatttaatc tttatattta caaaaaaata 180
agttccacaa gatggacaaa aatggtccat gatatttagc ttaaattgta acctttttgtt 240
gtgtatataa aacttccttg gaagaaaata accttattgt tttcttaaag ctaaacagaa 300
taggattggt actcattaat tatgtcttgc aaatattttc taaaaattca accactctcc 360
taaaatggtg tttaaatatt ttgtagggca gaatatgcat attgcctgtt agcaagtaat 420
aattcattct catagagaaa tgggttttta cccatggaag taatcttttt tttttntttt 480
tttttttttan ttttttttttt wttattatac tttaagtttt agggtacatg tgcacawtgt 540
gcaggttagt tacatatgta tacatgtgcc atgctggtgy gctgcaccca ytaactcgtc 600
atytagcatt aggtatatct ccyaatgcta tccctccccc ctccccccac cccacaacag 660
tccccagagt gtgatrttcc ccttcctgtg tccatgtgwt ctcattgttc aattcccacc 720
tatgagtgag aayatgcggt gtttggtttt ttgtycttgc gatagtttrc tgagaatgat 780
grtttccary ttcatccatg tccctacaaa ggacatgaac tcatcatttt ttatggctgc 840
atagtattcc atggtgtata tgtgccacat tttcttaatc cagtctatca ttgttggaca 900
tttgggttgg ttccaagtct ttgctattgt gaatartgcc rcaataaaca tacgtgtgca 960
tgtgtctttа waaaaaaaaa aaaaaaaaaa aaaaaactcg agggggggcc ccgggacccc 1020
aatttcgcct ataggngagn cctattacaa tncactggcc gncgttttac aacgccg 1077

<210> 936
<211> 1077
<212> DNA
<213> Homo sapiens

<400> 936
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ctgcatcaag atgccaatcc ctttgtgggc ttcaccagtg cccaagtctc tatggagaat 120
gagaactgga agccactgct accgtctacc cagcaccagt agtgccgatg tgccacactg 180
cccagttgag gcccctcacg ctctgtgccc ctagatcctt caggtcccca ccctcagctg 240
tcaccaccac cctccccagg ggactccatc tgagatgagg cctcgtcctc ctggaagctg 300
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aatgaccaca gccactcgca tccgtatagc actttaaagt ttctgcagtc ctttgacaca 480
taggatctca tggagcctca cgtctactcc cttctgcaga tgaggaaacc gagagaagtg 540
gcccaaggtc acgcaactct gagatgccac atttcatttg atcttgtaca cattttcttt 600
tattccttct tttttcctcc tttcatttcc cactacgcac aaagagttta taaacactgt 660
tctcagaaga gtcacagttt ggggtgagat ctggaaatca agaaatgggt gtccactctt 720
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gtaccccaca gctagacagt gtcagcactc atctcctcct cccacatttc tggagctttt 960
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atagaattga aataaaatgt tttcaactta tcaaaaaaaa aaaaaaaaaa actcgag 1077

<210> 937
<211> 1309
<212> DNA
<213> Homo sapiens

<400> 937
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gctgacctaa acactggccg acattcccaa ggtttttttc attatggaag tgcatggcca 120

ttgcatggta tccagaaaac aaagaccaga gaagccagac tttataccac catctggaaa 180
catttaattt gtgctttagg taagtgttag caaatattta ggatgattga tcaaatcatt 240
agtgtgttta tgagtgcatg gtgtaatttt tactaaagct cacatttctt caggaactcg 300
attcaactcc tttacattcc tggttatttt catttacttg atcttgaggt ctcatctggc 360
agagctgtgc aagctgggac ctttgtggct cattttgagg agctgtttac tttacctgtt 420
gatgggaact tgcaggtggg aggcagccag tcttaaagag taccttgtta gcaagtgtgg 480
aagagagtcc acgcagacag acttgcccta tgtggtgtcc cctctgccag cccagccctt 540
gggcacattg gcacctacct gaacccgagc cccctcatgc acacagggag ccgcacctcc 600
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cactccacag ctctgtgcac agcatgctgg gtcagggtgg tgctagatta ataagatgag 720
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<210> 938
<211> 910
<212> DNA
<213> Homo sapiens

<400> 938
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agtgctccct gagtctgctg gacacaggtg ctctgggcac ggtgctccct gagtctgctg 120
ggtagaggtg ctctgggcac ggtgctccct gcttctgctg ggtagcggtg ctctgggcac 180
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ttgggcaact tagcaatgtg cgatggtatt gttactttat tttttagaag ggacaagaaa 360
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ctattaaaaa tacaaaatta gccaggcgtg gtggtggacg cctgtaatcc cagctactcg 780
ggaggctgag gcaggagagt cgcttgaacc cgggaggcgg aggttgtggt gagccaagat 840
cacgccactg cactccagcc ggagtaacaa cagcaaaatt ccgtctcaaa aaaaaaaaaa 900
aaaaaaaaaa 910

<210> 939
<211> 2894
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (103)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2876)
<223> n equals a,t,g, or c

<400> 939
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WO 2004/063355 PCT/US2003/040526

ctgtgcacat ctgctgtgtc cttgtaccag atccaggaga gtntggtggt ggaccagatc 120
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caacgtcgtg actg 2894

<210> 940
<211> 837
<212> DNA
<213> Homo sapiens

<400> 940
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gcagaggtgg catcaggaac aaatgggtca taagaactta ccttggcagc agccccagaa 360

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ccacttaata ttcctgctct cctaggcatg ggtcaggtac atcttcagcc atgggtaagt 540
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cgtgaacctg ggaggcagag cttgctgtaa gcagagatcg tgccactgca ctccagcctg 780
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<210> 941
<211> 1377
<212> DNA
<213> Homo sapiens

<400> 941
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aagtagctgt tgacaaccta ctctcttgaa aagttagata taattcttaa tcatgtttag 540
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ttggaacagc ttccctcccc taaaggtatt ctagcagagg cgagacagca acttggcggg 660
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<210> 942
<211> 1319
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (65)
<223> n equals a,t,g, or c

<220>
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EP 2 264 150 A2

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<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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Application Publication

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<212> DNA
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Patent Application Publication

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<220>
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<212> DNA
<213> Homo sapiens

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<210> 964
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<212> DNA
<213> Homo sapiens

<220>

Page 567 of 2005

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<223> n equals a,t,g, or c

<220>
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<222> (1181)
<223> n equals a,t,g, or c

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<210> 966
<211> 1858
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

10276.2005.sga

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<211> 588
<212> DNA
<213> Homo sapiens

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<211> 1453
<212> DNA
<213> Homo sapiens

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<211> 775
<212> DNA
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<213> Homo sapiens

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<212> DNA
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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<213> Homo sapiens

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<211> 1953
<212> DNA
<213> Homo sapiens

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<212> DNA
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<212> DNA
<213> Homo sapiens

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<210> 979
<211> 1230

<212> DNA
<213> Homo sapiens

<400> 979
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ggagatgctg cgagccctga gctgccttca cagccttgtt gggtgtgctg ctggatcaca 180
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ctctgcatga gaaagggata agatggattg ctaaatatcc cctggggctg agccagcaag 780
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<210> 980
<211> 361
<212> DNA
<213> Homo sapiens

<400> 980
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tattttattt ttagaatcag gcaaagggat tctagggatg ggcctgaaag gggcagctct 180
gtgcttgttt attacatggg tacactgcat actggtggtg actgggtttc cagtgtactc 240
atcacccaca cagtgaacat cgtcccagca cgtaattttt caagcctttt gcctctccca 300
cctcctctct cttggagtcc ctcgtgccga attcgatatc aagcttatcg ataccgtcga 360
c 361

<210> 981
<211> 1603
<212> DNA
<213> Homo sapiens

<400> 981
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gttcatacat atttgcctat taagacagga cccttaaatc tccaagctgg ggggaaagga 480
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tgccgaattc gatatcaagc ttatcgatac cgtcgacctc gag 1603

<210> 982
<211> 1647
<212> DNA
<213> Homo sapiens

<400> 982
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aatacggtga attatacaag gcaaccaact aggagttagg atctgcttca cagctgttta 180
cccaggtaaa ttatctcagg gccaagcata gtttggaatc actaggctta actctccagg 240
tttcccttgt ctcccaaaga tttctcagcc tgcggcaagt tttttggata catctatgat 300
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gatataaaga gttatatagt gagaagctct ttataccttt tgatttgtgg gccttgtgaa 480
tgcctcactt atataaaaat aaagataatg tgaaaccatt tgaaaactgg aatgaaatga 540
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aamaacaatg agactgaaag aaggtgaatt ggtaaccaaa agccttctcc caaaagacac 660
caggcacaga tggttttaca caaaagcttc atttcagaga atagaaaaat atacaaatta 720
yytcggagaa tataaaaaga aaaaaaatcc aatttatttt acaaawtgta ttagttaggt 780
tttgcttcac tcatgtcatg taacaaataa tgccaaatct cagtaactta caacacttct 840
cactccattg tctgtggatc tctgtaacca tgtagttata tcaatcaata tagaaaatgt 900
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caagcttatc gataccgtcg acctcga 1647

<210> 983
<211> 1497
<212> DNA
<213> Homo sapiens

<400> 983
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tcacagtaag agtcctccaa agaaggggtt ggctgccctt aagtgttccc catcattgga 180
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cagattttga ttgtcttgat gacttttaag gscacttaca ttagggagtc tytattttct 300
acctttttca ggcagaatct cctcttgagt ttacacaata tttatcaagt cttctctgga 360
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tcttggaagg atttttagga cagagagatt cttcccatct tgtgcttgtt ctaactacat 480
taactattag tactgcattg atggctgact tactgggaag actgcttgga aaaatacaag 540
aagccattgt gggaaagtgt attctccaaa agaattccaa atgaatgaag ttgtttggat 600
tttgtctgag tgcaggttta tacacacatg catttatgta tttcctgaat ctttttggga 660
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<210> 984
<211> 1566
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1068)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1100)
<223> n equals a,t,g, or c

<400> 984
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acatacctac ttctgaatcc tatcctaggc tgaatacccc ttccaccctt tcacttcatg 180
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gaagttggct gcgccctccc ataattactc aatcctgtat acccaccacc cccaccccag 300
gatgaattct gaggtagaat gtatgccatt cacatccgtg cacatcctgc cagattttct 360
cctaggatgt ctgcacactt cactcacgtt ccttttactg aatcttcccc tatgcatggt 420
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acacacctcc tgccaagtct tcccttacac tggcagcatc ctccactcat gaacttcagg 540
ccaggttctt ccatatgatg gctgcattgt caacaatgta cctcttctca agtcctccct 600
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ccctccacat atacacattc tgctgcagat agcgttatgt tgataatctc accacccaca 720
catgttctgc catgccctct tcactargct aratgctccc tcctcccatg cacatcatgc 780
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<210> 985
<211> 1782
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1638)
<223> n equals a,t,g, or c

<400> 985
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ctgggtgaca gagcgagact ccatcccaaa aaacaaaaaa caaaaaacaa aaaaaaaccc 180
aacttttttat gattttagtc ttttacaatt tattgagacc tgtcttttgg cctaacatgt 240
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<210> 986
<211> 1406
<212> DNA
<213> Homo sapiens

<400> 986
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acccagtcag ggaatacatt tctgagcttc tatgtcaatt atgtgtgacc acaagactag 120
gttttcactt ctagagtatg aatggcaatc atgcatggat ttcttgggct ttctctatgc 180
tcttcttccc ctctccacta cctggaatct atagcaaact gacttacaat tcagagaatt 240
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gaattatcaa tggatgtcat tttcatagca ggctactctt atcctaacta aagtaatggt 420
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<210> 987
<211> 1311
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1301)
<223> n equals a,t,g, or c

<400> 987
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cctaatatcc ttcccactga gttcctagtt ctacatgctg gagtgaggct gtcaactctg 120
aagtgtcaga gtgtgtctga aaatgattgc tgtgaaaaat aaaatatttc acattgcagg 180
cctcattttt aagttatttt tcccagagaa cattttcata ttttagaact tatggtaatg 240
ttaacacttt ctatttgcat aagcacttcc ctgttgggag atactgcagg tgtaagtttt 300
tctgaggagt gtcataccac catggaacta ttttccatcg atctggagat agggaacttc 360
ttgtatactc tgagagagaa cttctttgag atgtaaacta gactgaccta ctttagaggc 420
tgcctgtatc ctaatttttct gttttaaaag agtgatggct gaacactgaa aagctcggga 480
cattttagaa ctgtgctgcc caatatggtg gccactagcc atatgtggct atttaagttt 540
aaattgaatt aaaataaaat gaagtggaaa aaattaagtt catcaattat attagccaca 600
tgtaactgat gactagtggc tacctaccat atatagaaca tttctattat tgcacattat 660
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actccatctc aaaaaaaaaa gaaaaaaaaa aaaaaaaaaa ntcgaggggg g 1311

<210> 988
<211> 1742
<212> DNA
<213> Homo sapiens

<400> 988
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<211> 1877
<212> DNA
<213> Homo sapiens

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<212> DNA
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Application/Control Number: 09/774,694

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<210> 991
<211> 766
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<222> (754)
<223> n equals a,t,g, or c

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<221> SITE
<222> (756)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (760)
<223> n equals a,t,g, or c

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taagattatg taagggttga agaaaggttt gctgggaatg tggtgtgtgt tttagcagag 540
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caccgccatt tctgtgacct cacatctggc atggccaggc acacagtagg tactcaataa 660

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<213> Homo sapiens

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<220>
<221> SITE
<222> (3138)
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<210> 993
<211> 1698
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

10/825,350

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<212> DNA
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<210> 995
<211> 740
<212> DNA
<213> Homo sapiens

<400> 995
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gcagtcctct agttacagtc agcatgggtc tggctcaggt cactcctctg gctacggaca 180
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<210> 996
<211> 1015
<212> DNA
<213> Homo sapiens

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<221> SITE
<222> (365)
<223> n equals a,t,g, or c

<400> 996
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<210> 997
<211> 1906
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (20)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (35)
<223> n equals a,t,g, or c

<400> 997
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agaagcagat gttgcggagg agttactttg ctttcctgca aacagtcaca ggcagtggga 660
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<210> 998
<211> 1216
<212> DNA
<213> Homo sapiens

10574.60.2.69

<400> 998
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aaaaaaaaaa aaaaaa 1216

<210> 999
<211> 1191
<212> DNA
<213> Homo sapiens

<400> 999
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<210> 1000
<211> 1418
<212> DNA
<213> Homo sapiens

<400> 1000
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<210> 1001
<211> 1854
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1851)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1852)
<223> n equals a,t,g, or c

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<210> 1002
<211> 695
<212> DNA
<213> Homo sapiens

<220>
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<222> (1)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (602)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (677)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (687)
<223> n equals a,t,g, or c

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cagagggcgc atgaagccca ggctgttgcc aaaccctacc ctgccccaca ccaaggagcc 600
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<210> 1003
<211> 686
<212> DNA
<213> Homo sapiens

<400> 1003
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aggttgcagt gaaccaagat tgcattactg cactgcagcc tgggcgacag aacgagaccc 660
tgtctaaaaa aaaaaaaaaa aaaaaa 686

<210> 1004
<211> 2310
<212> DNA
<213> Homo sapiens

<400> 1004
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gaattccctg tacatctgtt cacgtgcttg tgtccaggtg tgacttgtaa actgtctagt 2220
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2310

<210> 1005
<211> 774
<212> DNA
<213> Homo sapiens

<400> 1005
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tgaaaaagaa gaatatgccc tagcttttta caacatcgac agtagttcag tttccgagtg 180
agacaaagca attactagaa gaggtaaaga aattttatta cgtcataaac cattgaaaac 240
acatctagta agaaaatgaa aacctgaata agataggaca atagttgaag aaagaaaagt 300

gtctggtact tcattagact tgtgtagctg tgtactgcat gagtaatctg ataatcatta 360
agattatatt aatttcttta aaaatagctt taaagaattc acagctatat atgtaccttt 420
tataaatctc tcatttttgt tttgtaagtt gacaggtcag taaaaattta ggcatatata 480
tttgtacata tgtgtgtgta tgtacatgtc tatgtgccta tatatgcatg tttttatatc 540
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cagttggaga agcatttctt gtaacaaact gattcttctg tatcaaacct ggaaaaaaat 660
catgaaccat ctgacatcgt gaacagtctg cagtgggcta tggtttcttg tcaagtctta 720
tttccttatc atcccattaa atgttgtcat tttgcaaaaa aaaaaaaaaa aaaa 774

<210> 1006
<211> 614
<212> DNA
<213> Homo sapiens

<400> 1006
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tacctaagga aaaaggcagt ttttctaggt accatgaagg aagattgacc ctgttggtat 480
gcctgtgggg gtgggatgtg agtgggactg ataaactgat acttttggtt cgtatgtaca 540
tactggaaga atcttcataa taaatgagac tacacaacaa taaaaaaaaa aaaaaaaaac 600
tcgaggggggg gccc 614

<210> 1007
<211> 849
<212> DNA
<213> Homo sapiens

<400> 1007
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tatatggcta gaggatgttt ccttgcatag atgtattaaa atgtatttag ttatcttctc 180
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ttagtgttat tccttggtca gatggcatgc aaaattataa gactttaaat gagtcttata 360
taccactact tacagtcact tatgatatta taatcactta tgataccacc agtgattttt 420
atttaattat ctgcttgtta gtacaagctt gttatgtaac atatttgctt gaagttattt 480
tacttctaat atatgctttg gttgttaagt aaaggagttt cttgaaatgc aaaaatttca 540
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gcgccactgc actccagcct gggtgacaga gtgagagcct gtctccaaaa aaaaaaaaaa 840
aaaaaaaaa 849

<210> 1008
<211> 762
<212> DNA
<213> Homo sapiens

<400> 1008
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actgcattgg atgtgagagt aacgtaccgt atggtcattg ttctatatat taacattgaa 120
cactgctgcg attgctcaag gacattttat gttacggctt taaagcaaag gcatgattat 180
tagaaactat ttaagctttt ttctttgaaa aacaagctcc ttttacagaa tataaacaac 240
agtagtgcct gtggtttagc ccaccaatct tgatgactaa aagtagctga tgcattgtgc 300
atatgatgct tgagatggtt tttgcaaaag cagaaatcgc tgcaaggtaa tcacaataga 360

taaaagtggt attttaaacc tttgaaataa atggatgtaa ctgtaccttg gtacagcttt 420
tcacttgttt agtttttaaa cgttagtata atctgaataa ataaaatgtt gccaaattca 480
atgtagaaag aatgtgacaa cacaccttgg gtagttctgc ttgtgttttt gcatattgta 540
aaagcagtgt cacagctaaa aagaaagaaa tcgtttctaa cagtaaatta ttgtgcttta 600
gttgctagtt tgtactgaga gttgacctct ccctgtgcag ttttttgttc taaacttgta 660
taaataacaa ttgtgtaatg tgtctccctc ctacattgta acaattgctt cagcctacgt 720
tataaataaa gaaccactag attaaaaaaa aaaaaaaaaa aa 762

<210> 1009
<211> 778
<212> DNA
<213> Homo sapiens

<400> 1009
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ttggctcatc agtgaagcgc agtatcttag ctctagattc tattttcatg catcacagaa 120
gtgctatacg gttaggtctg tttgtgcctc agtcaagaac taagaaatag tatgaattgt 180
aagtcaagat gggcaactca gatggagcag cttagtctca cagtttgctt gtctatttat 240
tttatttagt gccaaatgta ttccatttta aaagtaagcc agagtgagtc aaggcatata 300
cacactttct cacaaaactt cctaaacaga tttgggggtt taatatgtcc aactcctcat 360
gaaatatatt caatccactt aaatatattc catcttttta acataaaatg taaagcttag 420
cacccatcat taatttatgt ctctgtttta tccagtggtt aaaaaaggat tctgcctctt 480
tagtcctcac tgttaaataa aacccaatca tagtaagtga ttaactagca aaaagtaaag 540
ctatttatag caaatttcta gatcattaga aaagcactgg tagttgtaca atatcagtgt 600
tgactttgaa cttctttaac gagatcatga attcttttcc cttagccaaa acatgaaata 660
tttaacctag ttgtctctaa aagttttgta atcatgagtt agatatatgt catctcctat 720
tcattgcttt tatgtgatca ataaatcttt tacaaaccca aaaaaaaaaa aaaaaaaa 778

<210> 1010
<211> 1621
<212> DNA
<213> Homo sapiens

<400> 1010
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ttgagacaga ctgaatatat ctaaaatttc cagcaataaa aaaaaaagca tttaacttgc 120
accaagcaag aaaatataaa tacagttaac tgcattaaga taatcacgtt aaaattgtta 180
ctatgcagca cagaacttca ttcttatagt attcttgggt tcaacctttg aatcaatttt 240
accactgatt aaataaatga ctcaaagaca tctgtaagtc atgctgctgt gttttgaaag 300
tctttaacta aattaagatt gcagaatgat agtgattatt caattagatt ttaagtaagg 360
attgtgatat tagaggctgg aaatccttat tttttaaaaa atcagatagg cataaatagt 420
taaatcactt tcattctccc caaacctgta gttacagaaa aagttttatg ctagaggtgg 480
gatgccaagt tttcactatc catgaagcag cgctgcatgt cactaggtaa cacagatcca 540
tccagatggt gtttacattt gatttatttg ggatcttatt gacatcaggt atacttggaa 600
gacatttctt ttattcttca gcgtatgaat ttaaagctat tttttgtaaa tatttctaat 660
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tgctgtttac tggaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1620

a 1621

<210> 1011
<211> 962
<212> DNA
<213> Homo sapiens

<400> 1011
ggcacgagtg accacccagc cctccggctg ctgatgtcat gagtaacacc actgtgccca 60
atgcccccca ggccaacagc gactccatgg tgggctatgt gttggggccc ttcttcctca 120
tcaccctggt cggggtggtg gtggctgtgg taaggagccc tcatatacac acagacaccc 180
acagctttgc taaggcaggg gctgggtggg cctggtccag tctgcacaga gtccccactg 240
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gcgggtggac cggctgcgcc atcacctgct ccccatgtac agctatgacc cagctgagga 420
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tagtattcag tatatatttt gtaaataaaa tgttttgtgg caaaaaaaaa aaaaaaaaaa 960
aa 962

<210> 1012
<211> 841
<212> DNA
<213> Homo sapiens

<400> 1012
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agggactttt tgtgcttggt taatttgggg ggtcatggag gtcagaggtg agatgcagcc 120
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tgcctgcacc tgagtgttca tcctgatggg cttttacatg tgtgtatacc catgtaacta 660
ctgctctgat catgttatag aataagggta tccaatcttt ttgcttccct gggccacatt 720
ggaagaagaa ttttcttggg ccacacctaa aatacgctaa cactaatgat aactggtgag 780
ctaaataaaa caagcaaaaa taaaaataaa aaataaagtc acaaaaaaaa aaaaaaaaaa 840
a 841

<210> 1013
<211> 458
<212> DNA
<213> Homo sapiens

<400> 1013
ggcacgagta tttttgtaac tttaaggtct aaatgactaa acttcaaagt aagattttgt 60
cagaataaat tgagaccatt aatctaatat aatacttgtt catgagcact gaaatcctga 120
agaggagaga tttggttata aattaaaaag gttgggtgat cttaagtgcc tcagttaatg 180
cacgtacagt attcatttgg ttggttgtac tacctctcag aagtaaaatt tgtcacctta 240
tggaatgaga gtttttgggt ttgggggttg ttttttttgtt gttgcttggt ttggtatttt 300
tggttttgtg tgtatttgta taaatttttct gtataattag cccaggctga tgtaactata 360
aaaattagtt gaaaaaaaaa atattgtttc cttaatggaa ttctcacttc atttgaatat 420

aagattttgg atgaaaaaaa aaaaaaaaaa aaaaaaaa 458

<210> 1014
<211> 1537
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1424)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1426)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1433)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1440)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1476)
<223> n equals a,t,g, or c

<400> 1014
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accttagcaa caccaagagt tgggccctag atgggcccag cacattcaca ggtcacaccc 120
acttccctgc aaaacccacc ccctcccagc ctcctcctga ctctaagccc tcctcttcct 180
ctacctctcc agtgtatgtc tgtcaccccc catttcacca gagcgtcctt aggggctggg 240
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gtgctgactg cagcaggtag gttgggtttc cctcttcctt ccctaatctt ggttctctac 360
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cactgtaatt ttaattctct gcctgcccag cctctctgtc aaagtagctg gtgatctata 960
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ccagggcatg cttatgtgct gtcaccagca gacaaacaga gggaatggaa tctgggggtt 1140
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aataaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa 1537

<210> 1015

<211> 519
<212> DNA
<213> Homo sapiens

<400> 1015
ccacgcgtcc gcacgtggtt agtggcatct atattggaca gggcagatct agagagaatc 60
ctgtatctaa caattttaat ttttttccct ttatgctgtt attccttacc tagagaaaca 120
atttccctcc aaagttcctt tgaggggtct gtttaggcca ggccaacaca agtgacctat 180
gtggatttta gcatcctttt tttgaaattt gaggttttat gaagcttgag tttttctgga 240
tatttttagt aatttgctgg tgtgtactta gctcagatac ttgattgcaa ctgtgttggg 300
tcaactattt ctaatgggac ttttccattt gcatgtacag tcactggaaa ctgctgggca 360
gagaaactct aaaaggtagt tggggcacac tttttccacc tgtcagattg gtgaagaatt 420
ggtgaggctg tggggaaaat ggcattctcc cacttttgat ggatatgtat ccaaataaaa 480
gtcattccca tgctttcttt caaaaaaaaa aaaaaaagg 519

<210> 1016
<211> 1734
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (191)
<223> n equals a,t,g, or c

<400> 1016
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aggaaggcac cccaccattg tgtagtgagg cagtatacag agaggtaagg cagccggggc 180
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cttagagcag agggaacttg acccccatct taactgtctc ttttgaggat gagcagagtt 360
ctcaggtgtg cccccagcct ggtttatata aatgtagctt taatctaggt gtgagcagat 420
gtctgttggg gatctctgga caccaggcct actctggagt cagagagggg acccgccatt 480
tggctctctg gtacatgtgg acagtgtctg ctcctctact tgtcatggct gaaagtactg 540
cagctgtcat gacattctct ggtgtagaag aaagaacttc ccagagggtt tcctggcact 600
gcggaaagac ccagaatgag ggargccctk ggacccacag aggcccctgc aggcatttca 660
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gtccttattc cttctttttt tacaggtggg cagatggaag agggtcgatg ttttgctcag 780
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gtaacaggtg ttctcagcct catgaaaaac ccatgctagc tgtgacattg aattgctggg 1020
ctggcagaca tctgcggagg agcaaaaggc atatttgctw cttmctgcct ctgcgcggtg 1080
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<210> 1017
<211> 1908
<212> DNA
<213> Homo sapiens

10/22/2004 09:55:39

<220>
<221> SITE
<222> (1868)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1887)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1904)
<223> n equals a,t,g, or c

<400> 1017
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<210> 1018
<211> 513
<212> DNA
<213> Homo sapiens

<400> 1018
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aaatcggcaa cgcatttatt tacaccaagc ccttcccata aaacacaact gctgaagaaa 420
atagcagacg tttcccctct ctctaactct gggtatccca cagatgcaaa agggagaata 480
aacctgaata ttattaccaa aaaaaaaaaa aaa 513

<210> 1019
<211> 1030
<212> DNA
<213> Homo sapiens

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ccaaaacatg cgtctttttc tatgcctgtg gtcaaatcct gcatggggaa aggtttcgat 180
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atgtataaaa ttagatcaac atattgtcgt ttattcaatt catagacaga ctgtgatatg 360
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<210> 1020
<211> 1063
<212> DNA
<213> Homo sapiens

<400> 1020
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tttgttttgt tttaatcttg gcaagactgc gaggaactag gcattcttat acattgcttg 180
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<210> 1021
<211> 1749
<212> DNA
<213> Homo sapiens

<400> 1021
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aaaaaaaaa 1749

<210> 1022
<211> 138
<212> DNA
<213> Homo sapiens

<400> 1022
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aatttgaaaa aaaaaaaa 138

<210> 1023
<211> 1985
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (310)
<223> n equals a,t,g, or c

<400> 1023
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1980
aaaaa 1985

<210> 1024
<211> 1576
<212> DNA
<213> Homo sapiens

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aaaaaaaaaa aagggc 1576

<210> 1025
<211> 2238

<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (393)
<223> n equals a,t,g, or c

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<210> 1026
<211> 1126
<212> DNA
<213> Homo sapiens

<400> 1026
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Patent Application

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Fig 2b of 3 6,306,969

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EP 2 374 890 A2

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Page 607 of 2636

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Jan 25, 2005 10:36 AM

<210> 1050
<211> 724
<212> DNA
<213> Homo sapiens

<400> 1050
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taaaatggaa atgatgaccc ctgggtctcc caggaccgtg aggggtcctg aaagggcagg 180
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gattgcagtg agccacgatg gtgccactcc actctagcct gggtgacaca gtgagaccct 660
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aaaa 724

<210> 1051
<211> 859
<212> DNA
<213> Homo sapiens

<400> 1051
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gggtacagga ttttaaagtc ccattatcaa cacattcaac tcagaatagt taatgtaacc 180
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cacttaggag gctgaggcgg gagaattgct tgaacccagg aggcagaggt tgcagcgcgc 780
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gaaaaaaaaa aaaaaaaaa 859

<210> 1052
<211> 1932
<212> DNA
<213> Homo sapiens

<400> 1052
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cccaatcgtc ct 1932

<210> 1053
<211> 1302
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (158)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (749)
<223> n equals a,t,g, or c

<400> 1053
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caggagctgt tcctgtttgg ggccaactgg accgtgcaca atgcgtcctc cctgctcacc 240
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<210> 1054
<211> 545
<212> DNA
<213> Homo sapiens

<400> 1054
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cacactaata tttagttttg ctttctcgtg gataatatta agcacttact ctgcagtttc 180
ctggaagttg tgtcaactgc agtgatacta ttcaggatgg tgggaaatcc ccaaaaatat 240
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gctactttgt attttatgca tgctctgtaa tttgattttt ttttagttat tgatttggat 480
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aaaaa 545

<210> 1055
<211> 1141
<212> DNA
<213> Homo sapiens

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gcggaagaac tacccgaacc caggaggtga aggttgcagc aagctgagat agcaccattg 1080
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a 1141

<210> 1056
<211> 656
<212> DNA
<213> Homo sapiens

<400> 1056
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cccagtcagt cctgcgtgat tgtggcgagg gcgcgtctgg caccgggaag gtgtagatca 180
tctagaatga cggcgattcc gacgccccgg tcagtcctgc gtgattggcg agggtgcatc 240
tgtcgtgaga attcccagtt ctgaagagag caaggagaca gattcccgcg tagtccaagg 300
cattggctcc cctgttgctc ttccttgtgg agctcccccc gccccactcc ctcctgcctg 360
catcttcaga gctgcctctg aagctcgctt ggtccctagc tcacactttc cctgcggctg 420
ggaaggtaat tgaatactcg agtttaaaag gaaagcacat ccttttaaac caaaacacac 480
ctggctgggc tgtaaacagc ttttagtgac attaccatct actctgaaaa tctaacaaag 540
gagtgatttg tgcagttgaa agtaggattt gcttcataaa agtcacaatt tgaattcatt 600
tttgctttta aatccagcca accgtttctg tcttaaaaaa aaaaaaaaaa aaaaaa 656

<210> 1057
<211> 798
<212> DNA
<213> Homo sapiens

<400> 1057
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ccagtttttt gttggtttgt ttctttgttt tctccccatg aactgtttct gcaactcttt 120
ttcaaaatgc gcctttcagg ttctgtaagc cccatgcggg caggagcgac ttgcgggatc 180
tcttggactc ggcccagagg ttgtcgagga cagcctggca gggaggagcg ggagaaaccc 240
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cgtggtgctg ataacaccaa ggtcgcgggc tcgactcccg caccggccac ggcgttagct 480
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aaaaaaaaaa aaaaaaaa 798

<210> 1058
<211> 1221
<212> DNA
<213> Homo sapiens

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gtttaaaaac taaagacttg agaactttat cagagttaat aagaacgaga aatatgtatg 180
tacatttaca atacaaaatt actatttaat aatttacaca tggcattaat tctaattgtg 240
tttaaatatc agagcttttt caggcttcat tcatgtaatc aacagccaca tgctaaggta 300
ctcgaaccag cagtggaatt acaagatgaa gatggcatgg tccacctctc aacagtcata 360
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cagatataga gcagggcact actggaacac agagaaggga catctaccca cttttatgtc 480
atatcatggg ctttctggtg gaggagatac ataggttgat acctgaagga caaggaaaag 540
cttcccagat agaggaaaga ggcaaggcaa agagcctgag gtaaggaaga gccctgcaga 600
gttccactcc atccagtttg gtgctagagc aaagggcaga gtgcagtaag cggtgagaaa 660
caagactgag taacttgaca agaatcacat tgacatgggt gtttttattt catggtgaaa 720
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<210> 1059
<211> 438
<212> DNA
<213> Homo sapiens

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ccctctgacc tcaaaggcta gctgcgcata gctcttgaca ctcccggcca tctctgtggg 300

taaggtgtcc ctcggatctg tcctcttcgt gtacacagtt gtttctgaaa attttcaatg 360
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aaaaaaaaaa aaaaaaaa 438

<210> 1060
<211> 442
<212> DNA
<213> Homo sapiens

<400> 1060
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cgggccccac tcaaggatgt agggcctttt ctggcccctg acccctccct ggcatgggag 240
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tttgccaaaa aaaaaaaaaa aa 442

<210> 1061
<211> 542
<212> DNA
<213> Homo sapiens

<400> 1061
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catcacaggt tgacatccca gcccaaagct gaggaaaaat gtctcttgtt acatttttg 120
gcacataata gaatttatga gcattttcag tgttttgatt tttttcccca gtcactgtta 180
ttccttaccc tccagagtta ggtgtggaga gattatgttg gcctgtttcc atggtgacac 240
tgaagaaaag taatttttta aaggaggttt ctactgtgtt atttcacatg catgaaacat 300
caacatctat gctgtgtggc tattacccct aaacataaag acacagaaat ggttggagta 360
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aaaagtctct cagttaccca gggcacctgg gagagagtga gggaacagtt ctgttcagtg 480
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aa 542

<210> 1062
<211> 1060
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1060)
<223> n equals a,t,g, or c

<400> 1062
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gaagactttg aggaatgaga gacaaatgag gtagagctca cctgtgctca ccagctccgt 180
caggtggtca gccgacccct ttccctggga accccacttc tctctgtggc tggcttggtt 240
gtcgggggtg agatgccata ttgattacag ggcagcaaag aaccagtacc aggaatttac 300
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gacacctttt cactgaggtt cttaccagct cagccaaatc tccactctgc tatagcagaa 420
gcaataatgt ttgctttaaa aagatttctt gacctatgcc ttttcttaga aagtttgata 480
gattagttag aacttcagat catcagatca gtctcaaatg ggtttcttgg aattttatat 540
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ttgatacaat aggtcgttga ctccctccta gtagagctat ctaggtttgt ctggaaagtt 900
tccgaccctg gcttataggc accacacctc atgtactcct catggcttgg atctctgtat 960
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<210> 1063
<211> 1240
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1039)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1052)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1063)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1076)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1175)
<223> n equals a,t,g, or c

<400> 1063
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gggccactgt gacaggggag gcccagaggc ctcagcccca cactgggctc ctctgcaggt 180
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gccttcctgc tgctcttcct cctcttataa ggaataccac acacacacac agacacatac 1140
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cacaccaaca taccacatac acacatacac acacacacac 1240

<210> 1064
<211> 826
<212> DNA

JP02/20056

<213> Homo sapiens

<400> 1064
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catctatttt ctcccatacc gtcacaattt caccttttagc tagttcacca aagagcccaa 660
tattatattt tcatttgact ttaagaaata aaaagaggtc gggcatggtg gctcacagct 720
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ctagcctggt caatgtagtg agacctcgtc tctaccaaaa aaaaaa 826

<210> 1065
<211> 1174
<212> DNA
<213> Homo sapiens

<400> 1065
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agctcactgc gggagacgga cagaggaatg tcagctgagt acagttttcc catatggaag 360
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<210> 1066
<211> 1502
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (477)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (496)
<223> n equals a,t,g, or c

<220>

10254350.260505

<221> SITE
<222> (513)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1279)
<223> n equals a,t,g, or c

<400> 1066
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atttttgctt actgcttact ttaaaaagca gtttccttac gatatgatac gcactgtgat 240
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ag 1502

<210> 1067
<211> 814
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (480)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (504)
<223> n equals a,t,g, or c

<400> 1067
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ggataaattc agaattgatc ccttttttgc cttctgtgct ttattctcca ttatgttatn 480

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<210> 1068
<211> 1303
<212> DNA
<213> Homo sapiens

<400> 1068
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<210> 1069
<211> 1522
<212> DNA
<213> Homo sapiens

<400> 1069
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EP 2 295 539 A2

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<210> 1070
<211> 1572
<212> DNA
<213> Homo sapiens

<400> 1070

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<210> 1071
<211> 1631
<212> DNA
<213> Homo sapiens

<400> 1071

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aaaaactcga g 1631

<210> 1072
<211> 1902
<212> DNA
<213> Homo sapiens

<400> 1072
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<213> Homo sapiens

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Page 629 of 1056

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US 2004/0005563 A1

Feb 23, 2005 15:55:50

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EP 2 292 636 A2

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tgtatttgtt ttttggaact gaatgaagtg cactgtgttc tctcaaagga gatttgcgtt 540
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ctcacctccc tgaggccaca caaatcctca gcctgtgtgg ctggaggtgc cgccatccac 780
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cagtgtgtta cccagataat gaaagttagc attcactttt taaatagcag taccctcaaa 960
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gtaaataata tggtcttgca cattgtttat gtggtaaaga ctgatttttg tagtcttgta 1080
aaagacattt tctgttcatt tacttttttc attataagat atgtataaaa taaaacttgc 1140
cattttaacc attaaaaaaa aaaaaaaaaa aaaa 1174

<210> 1089
<211> 2029
<212> DNA
<213> Homo sapiens

<400> 1089
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cctgtcacct gagacaacag acatggtcat ccagacagca acataaagtt cctccacagc 180
tcttgatgct gagaaacaga gagccatgct gacttccttc ttcttttcct atattgctct 240
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agtacctttc aaacatccag ccctccaaag gaaaggcttt tgatagctaa agattaatga 360
ctgtatattc cagattttca ccctaatagg tgctcaataa aaattactta aacttcatca 420
agggtttatc ttgtgttatt ctttaatggc aagtgcattg catgtactgg tgaaaatgtt 480
taaaatattt tttcaaaagg aatcagtatt caattttaca ttaggttgga tggcagtcac 540
attacaatat gacaatatta attctaactc ttctatgcta gacaaagaca aggtttcatt 600
ttcttactta atgcactgac attttggtca atgcccattt taagtgatga caagaatgct 660
tcttaaatgg tatactgctt gcttactatt ggctcaaata taaactcaat cttctttagg 720
atgaccactt aactacaata tcatcaaaac actgcaagta aataaatgta cgttcctcat 780
cacaactcct gaaggaaatt tcttactgat catccttaac gtaaggattc aaagatacaa 840
agaaaactta agaaattgaa agttctatcc taaaactatc acctgtaagg gctggttaaa 900
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gatgacatgc tttgaatatg aatgtaagga aaacaaatct actttttttct tataaaaaaa 1200
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attatccttc tcttttcccc tcatttttct ctttctaacc ataggggcat tccatagttc 1740
ctttgcctct agcacacaac taagaaattc tgaaagaata ttgaactcaa ctaaaccaat 1800
ttaataaaca cataaaagat atttaataaa tatgtaaagg tagtacactt tttatctgct 1860
atttaaaatt ttgttttggt ttggggagag gggtcaaaga ggaaggaaga taaactgaaa 1920

gtgttataga gaggagggaa atttgaagac accatattag aaacatgatc ctatcagaat 1980
gacacagcgg aattcgatat caagcttatc gataccrtcg acctcgaag 2029

<210> 1090
<211> 1035
<212> DNA
<213> Homo sapiens

<400> 1090
aattcggcac gagctatatt cttcttgatt tctagccttt tattggctct cagattgcca 60
gagttgggac tcaatagtaa gtaaccattt tkttgaggtg gtagtgattc taccagggtg 120
agtwatcatg acagcagaat cactgcgttt ttytctctac tctgtggcat agactctatg 180
ccatagagtg acgtgtgaaa ggcttgaggc tccctaccta cgagacaccc tggtccattc 240
tagcagtatg gcacgtgctg actgggtttt gagtctcttg ctgtataatc acattactgc 300
acttccctgc attttctcat ccaaaaatgg ggattacctg ctttgtggat cggtttgcag 360
atgaaataac acacgcaggg tatctagcac ggtcccccac atggcacatt cagtgttagc 420
cacacttcca tactaactgc cctgcgggga tatttaatga gctcttaaat ggcagaaatg 480
ttgtgtcttt tcctgttccc ttagtattcc tatttttgtt ggtaattttt cttatgaacc 540
atgcagttgt ctagttcagg ccattttagt atgcagtttt atctttgctt ccaacatgat 600
ttaatgttcc caaattggat ttcacataat cctagtgtcc tttgagactt gaattggttc 660
taggccaaaa aagggtgagg gggaaggaag aaattcagag tcaaatttgg caaataatat 720
atccctgtcg ttttgttttt tctttttaag acttgggccg ggtgtggtgg ctcacgcgtt 780
taatcccagc actttgggag gctgaggcgg gcagatcacc tgaggtcagg agctcgagac 840
cagcctggcc aacatggtga aaaatacaaa aattatccag gcatggtggc ccacgcctgt 900
ggtcccagct actcgggagg ctgagacagg agaatctctt gaacccgggt gagccgagat 960
cgcgccactg cactccactc tggtcgacag agctagattc catctcaaaa aaaaaaaaaa 1020
aaaaaaaaac tcgag 1035

<210> 1091
<211> 458
<212> DNA
<213> Homo sapiens

<400> 1091
ggcacgagca cctgtagatc cagctactca agaagctgag ttgggattgc ttgagatcga 60
gaggtcgagg ctgcagagag ctatgatggt gtactgcgct ccagcctggg tgacagtgag 120
atcatctctt gctctcaaaa aaagaaaatt tactactaat atttttgtgg ttctaaattt 180
tccaaaaact agaattatag tctacattct gcttgtaatt tgcatctttt aaatttagaa 240
atataagatg aatttcactt ttattatatt ttctttgcat ccacttcatt atttaaaatt 300
tatcattgct taaaacaatt acatcagtag taatgtttat tataaaaatt tgattcacct 360
ctttatgtgg caagtttctg aaatcacata tggggcaaga gtatcgtgtc cctctttgga 420
aaatgccatc tgccatagct tccttgagtg cagggatt 458

<210> 1092
<211> 1610
<212> DNA
<213> Homo sapiens

<400> 1092
tgcaggaatt cggcacgagg caagatctct gtctgttaat ctgcctcatg aaaatgacga 60
accaggagaa tctatgggac agtaggaaaa gctgccagtc actcagatga taataacatt 120
taccttatac atttataatg gaaatcctgc cactgtttac accagaaaca gtttcttttt 180
tttttttaa ttttattatt attatactta aagttttagg gtacatgtgc acaacgtgca 240
ggtttgttac atacgtatac atgtgccatg ttggtgtgct gcacccatta agtcatcatt 300
tatcattagg tatatctcct aatgctatcc ctccccccctc cccccgcccc acaacagtcc 360
ccgatgtgtg atgttccccc gcttcctgtg tccatgtgtt ctcattgttc aattcccacc 420
tatgagtgag aacatgcggt gttttgtttt ttgtccttgt gatagtttgc tgagaatgat 480
ggtttccagt ttcatccatg tccctataaa ggacatgaac tcatcatttt ttatggctgc 540
atagtattcc atggtgtata tgtgccacat tttcttaatc cagtctacac cagaaacagt 600
ttctattgag aaaatggatt ttaatagaaa attctcattt aaaatttggg cagatatctg 660
tattgttgag ttaaccaaat gagaagagaa aaatccttac aacgtagctt gtcatttgcc 720

tgacttgatg cagactgctt tgcttagtaa tcatgcagca ctatcaagac tgtgtacata 780
atgtcaggat ccatctacat aagatgtagt atggactgat gccaagtgag cctggggtgg 840
aaatcagaac tggatgcaaa tcctgatgtt atccgagaac aggcacctgt tacataggct 900
gtgttactgt ggcaaaggta atggtaaaac acagactggc cagaagcatt gtgtacaatg 960
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tgggaggatc acttgagccc aggagtttga ggctgcagtc agccgtgact gcaccaccat 1320
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tcctggccag acttcaccta tctaacaata tgctagtaac tatttgttga catgtcttaa 1500
agaaatgttc atcagggcct cagaaagcaa ggcagagaac aggtccctga aatttactag 1560
cttgcaccaa accatcagat aaagataggt taatatttga cagaaaaaac 1610

<210> 1093
<211> 1085
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (506)
<223> n equals a,t,g, or c

<400> 1093
gatgggtgcc ccaaatgctt ggtccaccat catcgtgcct ggcatgaagg atgctgtgat 60
ccacgcactt cagacctccc aggacaccgt gcaatgtcgg aaggccagct ttgagctcta 120
tggcgctgac ttcgtgttcg gggaggactt ccagccctgg ctgattgaga tcaacgccag 180
ccccacgatg gcaccctcca cagcagtcac tgcccggctc tgtgctggcg tgcaagctga 240
caccctgcgc gtggtcattg accggaggct ggaccgcaac tgtgacacag gagcctttga 300
gctcatctat aagcagcctg ctgtggaggt gcctcaatat gtgggcatcc ggctcctggt 360
agagggcttc accatcaaga agcccatggc gatgtgtcat cggcggatgg gggtccgccc 420
agcagtccct ctgctgaccc agcgaggctc tggggaagcc gaggatcagg aagtttaagg 480
aagttgccca aggttgcaca gctcanaagg gcacagctgg gatgcagacc cagcccgtca 540
ccacttcccc agcctccaca ccaaggccca gctgccttct ccccatgtac tccgacacca 600
agggccaggt cctcagacga cagcacagca agctggtggg cactaaggcc ctgtcgacca 660
caggcaaggc cttgaggact ctacccacgg ctaaggtctt catttccctc ccaccgaacc 720
ttgatttcaa ggtggcaccc agcatcctga agccaagaaa ggctcctgct ctcctgtgcc 780
tccgaggccc ccagctggaa gtgccttgtt gcctctgccc tttgaagtcg gaacaattcc 840
tagcacctgt cggaaggtca aggccaaagg caaattcaag gccagactgt gacaaaccca 900
gggctgaggc ctgccccatg aagaggctga gccccctgaa acccctgccc cttgttggta 960
cattccagag gcgcaggggc ctgggggata tgaagctagg gaagcccctg cttcgattcc 1020
ccactgccct tgtcctggat ccaacaccaa ataaaaagaa acaagtgaaa aaaaaaaaaa 1080
aaaaa 1085

<210> 1094
<211> 910
<212> DNA
<213> Homo sapiens

<400> 1094
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gagtctgcca gcagcagtag ctaatgtcta aaagacaaca ggggccagga gagaaaaggg 120
aggaaagaac taagtctctc ctagtctatg gcatgctatc atggggtcaa gtaggggcag 180
ggaggcttca tggggcctac ctttgggatg acattacccc agtgggcatt gtttgggtgg 240
ttttctttta aactatttac actgatatga cagactcaaa ctcatatttg ctattctccg 300
agcacatgga aaggtaactc actctgtaca ttcagatatc aaactatgca ctgtgagggc 360
tacgagaagc gcaaacagta aacgcttggc aggagggaac acttcctctc tctgaggaag 420
aggctggaag ctggtcttcc ccctccaaga atacacgggt gcactgagtc tttatgcaaa 480

ggcaacactg agccatggcc aagggcatct ctgcggggac cctgggaaag gagcctgctt 540
ccaggtgttc cccaaagaga tggaaaacaa gacagtcatt tggaacagtg atgcataata 600
aaatgtatgt ggccacctta caatactgct aagttgctaa aatatataaa gttaatattt 660
gagttctatt tttataaaat agttctagat ttatggcaat ataaacgtgt atagcctttt 720
gattttaatt tctagttttg tgctttgaag aaatatatgt aagattaaag aactgtatat 780
tgtaagcatt atattcaaat tatttaaaaa ttgttctaag tctatattca ataaaaagta 840
atgccaagaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 900
aaaaaaaaaa 910

<210> 1095
<211> 1654
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (450)
<223> n equals a,t,g, or c

<400> 1095
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gctcacagcc tggaattcgg ttaacaagtc agtgtcaacc tacctttccc ttcatgattt 120
atagactttt gggagtacct tctggtagct tttgtcttcc cataggaaag aggcccaatc 180
ccagtttgtc ctcacaaagc ggccagctcc gtgatatctc ttttgcgggc agagttaaga 240
ttgtacacag atccccacaa gtaccacgat ttttgcctca ggaaggataa agcacatgtt 300
tgtttctgct ttcgttttct tttttctttt tttcacgaag ccttatggag aagtatgttt 360
ctgctttctt tcctgaggaa gcctagcttc tgggccacgg gactgatcct gtctacatcc 420
tctttccctc cattctccat cgtgtctctn cccccgtctc accccacccc gtgcccctct 480
ctgcctcagc ttcccctctt cccctgcagt gagtttcctg cgcagcggca ctaagctcat 540
cttccgccgg aggcctaggc agaaggaagc tggcctgagc caatcacacg atgacctctc 600
caacgcaacg gccacgccca gtgtccgaaa gaaggccggc agcttttctc gccgccttat 660
caagcgcttt tccttcaaat ccaaacccaa ggccaatggt aaccccagcc cccagctctg 720
aggacccagc tctgaaaggg cacgagttct ctcagcccat tccccacctc cccttccata 780
ccccttcctg gatctccagt gcctgggcca ggaaagccct ctgggttccg ggaagccccg 840
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tgtccggcat gtgtgggtat tccccagaag catttgcctc ctgctgagcc tggtccctga 1020
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ctatttatat gtgtggctta ggaccctccg tgaacagatg atagagggca tctctcccag 1140
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cctccctcag gtccccactc agaccagcac cagtgtctgc ctctgagaat gttggcagct 1260
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gagatggctt taggggcttt atttaaagac tgtgatgatg gagccacgca aggctgcacc 1500
tctgtgtgtt gggagacgat gatgatgtcc attgctgtgt gatggcttgg aatttaattt 1560
attaaagtca aattggagtt taaaaaaaaa aaaaaaaaaa aaaaaaaaaa ctcgaggggg 1620
ggcccggtac ccaattcgcc ctatagtgag tcgt 1654

<210> 1096
<211> 1193
<212> DNA
<213> Homo sapiens

<400> 1096
aacaggtctt tcctgttttc tggacctgct agaaagcttc agtcagtttg gtccctggga 60
gagaaaacgc tcttcccatg acggctctgt ggaggccagg aatggggtag gtgggttgac 120
tgggagtact ccttcctgcc gccctggtca agggactagt gtgagtcggg agtgcatttt 180
tggaatgggg gcaggggtgt ttttcatgac catttatttg agtggttttg atggttatgc 240
atactcttta aatttgaatc caaatttttt gcaaaattac ttcccaatca gatcttgacc 300
cttagcctgg gacaccacaa actgaggtga attcyckgct ttgctcgtca caaatgccaa 360

actgactgcc ctttcacggt gtccatcttg ctgtcttttg cttctgtttg atttggtctg 420
catatctttt aatgtgtctg tttttgtttt gtttgtttta tttttatttt tcagttaacg 480
cacgcacaga cttacatgtc aagagtggac tttagacttt catgtgttaa gttgcttgag 540
ttacaccttg tgacccttct cccataacat ggtgtgagga cggactggga gccggtacag 600
actccagtgt ttacagcctt gctttcctcc caccgaccct ggccccaggc tgccccgggc 660
ctggcgggcc acccctctct atgcaaacac gtaaaagcca tgaatgctgg aatccaaaac 720
tgacgaggtt tatttttttc agagccagtg gctggtcttc catttacagt gtcactattc 780
cctgacggag ctgttatgtg ccgctctagc gaaggcccca gccgggatgc taggcctaat 840
tgttcagcgt ggagatggca actcacgtgg tgccctaggt gcagctgcgt ggtctggtat 900
acatgctgca aaattcaccc agttcccctc attttaattt ttctaaccta cagcttaatt 960
ttaataactt taaaacactt ctaaatattt attttggcac cagcgtcaag acaaataata 1020
tcctctccca ttattttcat aagtaacaca gattccctga tttttaaaaa ctaaaaatac 1080
agctaaacct ttcttatgta taaagtatgc ctatcatata cagggagagg tgggtaataa 1140
acttcctgta atgacaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 1193

<210> 1097
<211> 983
<212> DNA
<213> Homo sapiens

<400> 1097
ggcagagaag gaccccaagt taaatctccc aagttaaggc tgagagctcc agctctcttc 60
cgaaaagctg gagctgccaa cccttccctt gggacctgcc gattatgcag ttttcttctg 120
atactagctt tggtttctga ggtattctgc cctctccctc ccctcttctc ccaaaacatc 180
tgcctctcct cagtccccgt ctgggtggtg ggtgcacaat accaagtgcc tgaaaagcct 240
gagagagagg gtctggggta gggtggggac cactggacac cccaagtgca aactgctgct 300
ttctgaccct tgcttgctta tgtactccct tttcaactgt gttgaatttt aatgacgttt 360
ttagtggtgt agaaatgcaa gtattttggc ttaacagcat gaagtctggg ttgcacattg 420
tatcagaggt gctgtaatct ttccagtatc tctgatatac ggctttctgg ttgaatgtca 480
ccctgggccc tcttgactgg ataaacaacc atgagggctc ttctctgtgg agctgccgag 540
agcttggtgg tagaaagcga tgtttctaaa caactgcagc ggctctttcc tgtctgaact 600
gcatcgtgtg tctgactgcc ttgctgtcca tacatacaga ctccttccca ggcccggctc 660
tgtgcagaac ttccatgttt taccacattt ttctctcctg aactcccttt gtcagcccca 720
gggtgttgag gctgggtcct ctctagcaat ctctaccttc agaagagact tttctaaata 780
ttttgctttt ccagttcttg ttgcttttgt cattgtgaag agtcacccag gatgctggcg 840
cttggtaccc taagatcaga agtggtgtgt gtgtgagctg tgagacatgc acacctttc 900
agagtgatac tgtgtggtgg aaggactgtt agaactcaaa gaatagttaa taaatccagt 960
gtattaaaaa aaaaaaaaaa aaa 983

<210> 1098
<211> 847
<212> DNA
<213> Homo sapiens

<400> 1098
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cgtcagcact gagaccagac tcgagcaccc ctgtcctgta agcgagacaa aatggcgtgt 120
gttattttgg ggttttgtgt tttttggtgg gtttctttcc ttggctctcc agatttactt 180
ttggggcctg ttctaagtgc aaacccagca agtttcactt gtcctgccca ttagatacaa 240
ctacatcttg cgggggttgt ttctttcttg ttccacaatg aaattgcaca tccatctcca 300
ccccagctga tagcctgtta ataagcactg gtctaacaca gccaaccctc cttccacagc 360
gccatattaa tggaggaggg gaggaaggtg aaatctactg catgggattc aggaaacagt 420
tgtggttggt caggacggaa gttggggtaa gtttggttgg tcagagggag ttgtgctgga 480
gattgtgaaa aatgggttct tgaatgatct actataaggc agggaaggtt catttgtaag 540
tagtaatgtg aactgaattg cattaagagt gtgtggcctt tgttgtgata tactatgtat 600
tttcttatat gcatgagcca aactgttgca tcataattta gcactgatgt ctgcttttat 660
tttgatcatc tttgtccacc cttattagtt cttggctgtt aaccgtagat agatcttgta 720
aatcccacaa cctttggttg ctgcattccc cttggttcga ttccacgcaa ggagccacaa 780
gtgagaactc cactgtcctt agaagaaagg gcatttttac ttttgaacca aaaaaaaaaa 840
aaaaaaa 847

<210> 1099
<211> 282
<212> DNA
<213> Homo sapiens

<400> 1099
ggcacgagac agaatgctgt tgccaaaacc tgcacagccc tgaggccagc ctcggccttg 60
gtaacggggg aaagtagctg acagtgagac ggggctcctg gcccacgtgt ggggcacggg 120
catcctggat ggttggggag gcgccgacag gcacttcacg tattacaatt ggggatgtgg 180
gtgagggagg gaatctggtt ttgttacttg gcagtggttt tttctcaccc ttccttttta 240
acaataaaat cccatttggg tcttgaaaaa aaaaaaaaaa aa 282

<210> 1100
<211> 2707
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (938)
<223> n equals a,t,g, or c

<400> 1100
gaattcggca cgagcggcac gagctccaat tcaaacaagg agaacatggc aaccttgttt 60
acaatttggt gtactctgtg tgaccgcgcc tatccctcgg actgtcccga acatggacca 120
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Page 643 of 2000

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<211> 429
<212> DNA
<213> Homo sapiens

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<211> 1721
<212> DNA
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<211> 1287
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<213> Homo sapiens

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<223> n equals a,t,g, or c

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<211> 1037
<212> DNA
<213> Homo sapiens

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catttatttc taaataaagg aggagaaact ctagcaaagt aatatttaac attttcattg 240
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<210> 1106
<211> 946
<212> DNA
<213> Homo sapiens

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agtggaatct tagtgcaaaa aaaaaaaaaa aaaaaaaaaa ctcgag 946

<210> 1107
<211> 1636

<212> DNA
<213> Homo sapiens

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aactcgaggg ggggcc 1636

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<211> 409
<212> DNA
<213> Homo sapiens

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<222> (388)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (401)
<223> n equals a,t,g, or c

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<210> 1109
<211> 1652
<212> DNA
<213> Homo sapiens

US 2003/0224454 A1

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ggctgcgaaa agagaaaaaa aaaaaaaaaa aa 1652

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<211> 1528
<212> DNA
<213> Homo sapiens

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<210> 1111
<211> 1790
<212> DNA
<213> Homo sapiens

<400> 1111
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<210> 1112
<211> 2324
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (41)
<223> n equals a,t,g, or c

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<210> 1113
<211> 2913
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (2288)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2753)
<223> n equals a,t,g, or c

<400> 1113
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<210> 1114
<211> 424
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (409)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (416)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (417)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (421)
<223> n equals a,t,g, or c

<400> 1114

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gttaccacaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaang gggggnnccc 420
ntta 424

<210> 1115
<211> 1844
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1699)
<223> n equals a,t,g, or c

<400> 1115
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<210> 1116
<211> 2124
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (76)
<223> n equals a,t,g, or c

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<210> 1117
<211> 2312
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (239)
<223> n equals a,t,g, or c

<400> 1117
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<210> 1118
<211> 1058
<212> DNA
<213> Homo sapiens

<400> 1118
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aggagatcgc ttgaacccgg gagacgaagg ttgcagtgag ccgagatcgc accgctgtac 960
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gggcggcc 1058

<210> 1119
<211> 2732

<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (334)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1885)
<223> n equals a,t,g, or c

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caacacaggt ctgggaggga tccctgtagc aggtattcca gcgtcttcag gaaacagttt 180
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gatggacggc cccagcgctg ctccatcaca gacccaccac agcgcccctt tcagcrcaca 300
gatcccgctg cacagagcca gttggaatcc ctancctcct ccttcaaacc cttccagctt 360
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gcatgacttt ataaaaagta tgaagaataa aa 2732

09/5/2006 4:56:56 PM

Page 656 of 656

<210> 1120
<211> 372
<212> DNA
<213> Homo sapiens

<400> 1120
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actcagaaga cctttcaagc atcttgtgtt tatgagaata caggggcatc tgcggaatga 180
attcgaacac atggatgaat taaatttgaa aacacacaga ccgagaggca gacagttcct 240
aggctgtggt cgttgcatgg attttacaaa actgttaacc tacacctttg gctttgctgt 300
gttcattgtc ctggggaaga attgtgggtt taagaattac tctttgatta aactacttaa 360
aaaaaaaaaa aa 372

<210> 1121
<211> 2043
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (308)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1672)
<223> n equals a,t,g, or c

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ctacttttct ggcttttaag taatatcctc tcctttgttt ttgccaacag tgttcatgaa 180
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gcc 2043

<210> 1122
<211> 1557
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1557)
<223> n equals a,t,g, or c

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<210> 1123
<211> 1699
<212> DNA
<213> Homo sapiens

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<222> (2)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (26)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (28)

<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<211> 1796
<212> DNA
<213> Homo sapiens

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<210> 1125
<211> 1535
<212> DNA
<213> Homo sapiens

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tcagtgattg ctccattatg tgggaaaaac ataggaaaat aaacatagga aaaacaaagg 240
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cattggaagg aatattcttt ttgttttaat tgatagtatt ttaggaagta gctaacactt 360
gttcttattt cctagcttaa aaagtgaata tatgcacaca catatataac tagaaagtga 420
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aagagaagcc aaaataaata tcacataggc atttcagata tcccttcctt taaatgttta 540
tagtgataca taaaatagaa attgcaaata tttgatattt taatattatt tttgctttac 600
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<210> 1126
<211> 1328
<212> DNA
<213> Homo sapiens

PCT/US99/30536

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<210> 1127
<211> 1232
<212> DNA
<213> Homo sapiens

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<222> (22)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1227)
<223> n equals a,t,g, or c

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caacggtttg gagcagcaca tgtttgggaa aatggggcta gaagtaatgt tacagtgagg 180
aatacaaacc aaagattaga gccaataaga ttacgatcta cttccaatag tcgaagccgt 240
tcaccaattc agagacagag tggcactgtt tatcataatt cccaaaggga aagtagacca 300
gtacagcaaa ccactagaag atctgttagg aggagaggta gaactcgagt ctttttagag 360
caagatagag aacgagaacg cagaggtact gcatataccc cattctctaa ttcaaggctt 420
gtgtcaagaa taacagtaga agaaggagaa gaatccagca gatcctcaac tgctgtacga 480
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ttactaaatg aaagtgatga tgatgatcga atacgtggtt taaccaaaga gcagattgac 1140

aatctttcca ccaggcacta tgagcataac agtattgata gtgaactagg taaaatctgt 1200
agtgtttcts gkgccgaatt ctggaanccc gg 1232

<210> 1128
<211> 557
<212> DNA
<213> Homo sapiens

<400> 1128
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tattctgtgt gatgggatat gaaatggtcc atagaaaaaa accggaaaaa tacgccaagg 120
ttaggttcat tctaagagtc taaaaatttc aaaaaccaaa acaacattat aaatggtgtt 180
tctcaaggac ctttcactac ctttttagat tgtgcttgtg attttcaggc aagctaaatg 240
tctgatgaag actgctcttc ttttgttctg tgtctgacct actaattcct gcccatgctt 300
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<210> 1129
<211> 1320
<212> DNA
<213> Homo sapiens

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<221> SITE
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (52)
<223> n equals a,t,g, or c

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gagctttttg aaggcatgcg agagagcacc aagatttcat ctctgttggc agaattggag 180
gcaattcaaa gaaattcagc atcccaaaag agtgtcattg tctctcagtg gaccaacatg 240
ctgaaagttg tagcattgca cctgaagaag catggactga cttatgccac catcgatggc 300
tctgtcaatc ccaagcagag aatggacttg gtagaggcat ttaaccactc cagaggccct 360
caggtaatgc taatctctct cttggccgga gtgttggtct aaacctgact ggaggaaatc 420
acctctttct tttggacatg cactggaatc catcacttga agatcaagct tgtgaccgaa 480
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<210> 1130
<211> 1271
<212> DNA
<213> Homo sapiens

<400> 1130
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cggtccccag atacaaacat gtggagcaga atggtgagaa gtttgtggta tataatgttt 180
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cggttacagt cagggttaaa aagaacagta ctacagacca agtatatcag tacgtaaatt 540
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cacctgcttg accattcgaa agtggctttt tacaacagaa gaagaaattc tcttaaatga 660
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aaaaaaaaaa a 1271

<210> 1131
<211> 2455
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1769)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2433)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2434)
<223> n equals a,t,g, or c

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<210> 1132
<211> 587
<212> DNA
<213> Homo sapiens

<400> 1132
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa 587

<210> 1133
<211> 1069
<212> DNA
<213> Homo sapiens

<400> 1133
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tatgtgaagt tgatttccat ggaaacctcg tcatcctctg atgacagttg tgacagcttt 180
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<210> 1134
<211> 2777
<212> DNA
<213> Homo sapiens

<400> 1134
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cggaccatga agctgtacag cctcagcgtc ctctacaaag gcgaggccaa ggtggtgctg 180
ctcaaagccg catacgatgt gtcttccttc agcttttttcc agagatccag cgttcaggaa 240
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US 6,638,759 B2

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Page 667 of 3953

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<210> 1141
<211> 658
<212> DNA
<213> Homo sapiens

<400> 1141
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gatccacatt cagcagcagg accagtgtgt ggaaatcact gaggagtcca aggctctcct 180
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tcagtgttct tatttcagtg acaataaacc atagagatga aaaaaaaaaa aaaaaaaaaa 540
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 600
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa 658

<210> 1142
<211> 633
<212> DNA
<213> Homo sapiens

<400> 1142
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gccatgatca agcttggttt ccacttgctc tgcttcttca tgtatcttta tagtggtagc 180
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tagtagtatc tcccatggca cttaccacat tctatctggt attacaatta tttgtatgca 420
attaatcact cttagattgt atgttcctgg agggcagaat atgcccattc atatttgtat 480
cttcttcctt ctgctcttgg cacctaacac agtgccttgc acacaaacaa taaatgattg 540
ttgagtgaat aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 600
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 633

<210> 1143
<211> 275
<212> DNA
<213> Homo sapiens

<400> 1143
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cttgtgtggg tcgagagcgc cctcatggtg ctggtgctgt tgtgtgtagg tcccctgggg 180

acacaagcag gcgccaatgg tatctgggcg gagctcacag agttcttgga ataaaagcaa 240
cctcagaaca cttaaaaaaa aaaaaaaaaa aaaaa 275

<210> 1144
<211> 1439
<212> DNA
<213> Homo sapiens

<400> 1144
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gtatttacac acacctggga aatatatata tctggtgtat atatatttac acacacctgg 660
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<210> 1145
<211> 1020
<212> DNA
<213> Homo sapiens

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gttgaggcat gtttcatact tcccacataa tcactccaga cttaaaacag aaccggaaat 960
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<210> 1146
<211> 1076
<212> DNA

10/576,650

<213> Homo sapiens

<400> 1146
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tattgaatta gtgataaata ttttacccta cgttgatata aatggacata ttctacaggt 180
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<210> 1147
<211> 1109
<212> DNA
<213> Homo sapiens

<400> 1147
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<210> 1148
<211> 1963
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> n equals a,t,g, or c

<400> 1148
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atcccgctga tgattatgag tctgaggcgg cttatgaccc ctacgcttat cccagcgact 120

atgatatgca cacaggagat ccaaagcagg accttgctta tgaacgtcag tatgaacagc 180
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tctcagattt gattgaccag aaagtgtatg agctacaggc cagtcgtgtc tccagtgatg 300
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 1963

<210> 1149
<211> 808
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (794)
<223> n equals a,t,g, or c

<400> 1149
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aatcagataa catttggtca gccaggcttg gacattcaga gcagaagtat ggaatacgta 420
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ctcgttgcgt atanggccag gaaagttt 808

<210> 1150
<211> 1036
<212> DNA

PCT/US2003/039526

<213> Homo sapiens

<400> 1150
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gataagatac tcactgttca tgaatacact tgatgttcaa gtattaagac ctatgcaata 960
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aaaaaaaaaa aaaaaa 1036

<210> 1151
<211> 938
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (28)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (41)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (43)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (48)
<223> n equals a,t,g, or c

<400> 1151
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ggcgctgcga cggccaccca gactgtcccg actccagcga cgagctcggc tgtggaacca 240
atgagatcct cccggaaggg gatgccacaa ccatggggcc ccctgtgacc ctggagagtg 300
tcacctctct caggaatgcc acaaccatgg ggccccctgt gaccctggag agtgtccccct 360
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<210> 1152
<211> 902
<212> DNA
<213> Homo sapiens

<400> 1152
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ccaggtctgt gccaagcaca gggactccag gggcagctgc cattcgttcc agtgatgtat 480
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<210> 1153
<211> 1044
<212> DNA
<213> Homo sapiens

<400> 1153
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taaaatttct aacatgatag tggtagttct ctggattaat ttatgctcat ggttttgctt 180
tgtttctccc ttaccaaaat gctcttttca gtattacaca agaaaaagat catgatttgc 240
atcatgatgt acatagcaaa tttcatgtat gatcgtgttt cctgttccat cacatttctg 300
gcatttttt taacccactg ggacattagg atgtcataac ataattggat gttagacata 360
ggttgagaaa tcaagggtag tggtagatgg aggctgacag acaccttcca gatccacttt 420
agaggtactg agtattccta aaccagttat gtaatttgca tgtggtcata tagctagttg 480
gtggccaaat cagggataca acatgtatgt gagtatcatt ctatcatcta tctatctact 540
tattgacaga taagaatata cttgctttgt gtaaatgatt acccttgat tttgtggttg 600
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cataaggtac aataattcgc ccaagctcac atagataaca agtttgcagg gctagaaatc 780
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aaaaaaaaaa aaaaaaaaac tcga 1044

<210> 1154
<211> 1417
<212> DNA
<213> Homo sapiens

PCT/US2003/036569

<220>
<221> SITE
<222> (551)
<223> n equals a,t,g, or c

<400> 1154
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<210> 1155
<211> 1377
<212> DNA
<213> Homo sapiens

<400> 1155
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attttgggcg ccacggagaa accggcagag tgctcttaaa ggaaatcctg gagcagggcc 180
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atttgttcgt gttgaccgag attatgtgct gaagtctgca gagctggcaa aagctggagg 420
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<210> 1156
<211> 905
<212> DNA
<213> Homo sapiens

<400> 1156
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cttgtgctag gttgcgggaa cagtgccctg agctacgagc tgttcctcgg aggcttccct 180
aatgtgacca gtgtggacta ctcatcagtc gtggtggctg ccatgcaggc tcgctatgcc 240
catgtgccgc agctgcgctg gggagaccat ggatgtgcgg aagctggact tccccagtgc 300
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tccctggacc gtgtcccctg aaggtgtcca cactgtggac caagtgttga gtgaggtgag 420
ccgcgtgctt gtccctggag gccggtttat ctcaatgact tctgctgccc cccactttcg 480
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agcgaaccca catgaaccaa tacagcccag ctccaactag aaaaaaaaaa aaaaaaaaaa 900
aaaaa 905

<210> 1157
<211> 1888
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (37)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1475)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1477)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1879)
<223> n equals a,t,g, or c

<400> 1157
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tttaaaaact cgggggggnc ccggtacc 1888

<210> 1158
<211> 1899
<212> DNA
<213> Homo sapiens

<400> 1158
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aaacatgaat cttgtttccc taaaaaaaaa aaaaaaaaa 1899

<210> 1159
<211> 1987
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (435)
<223> n equals a,t,g, or c

<400> 1159
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<210> 1161
<211> 4597
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<222> (10)
<223> n equals a,t,g, or c

<220>
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<222> (33)
<223> n equals a,t,g, or c

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<211> 1442
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<211> 2241
<212> DNA
<213> Homo sapiens

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<210> 1166
<211> 1577
<212> DNA
<213> Homo sapiens

US 7,566,560 B2

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<210> 1167
<211> 2110
<212> DNA
<213> Homo sapiens

<400> 1167
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gggcggccgc 2110

<210> 1168
<211> 1825
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (270)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (814)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1816)
<223> n equals a,t,g, or c

<220>
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<222> (1825)
<223> n equals a,t,g, or c

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aaaaaaaaaa aaaaangggc ggccn 1825

<210> 1169
<211> 1349
<212> DNA
<213> Homo sapiens

<400> 1169
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gctgatgacc ccaacgatcc atacgaggag catggattga tactgccaaa tggaaacatt 180
aactggaact gcccatgcct tgggggaatg gccagcggtc cctgtggaga acagtttaag 240
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cagttccggg ccatgcagga atgcatgcag aaatacccag acctctatcc ccaagaggat 360
gaggatgagg aagaggaaag agagaagaag ccagcagaac aagcagaaga aacagctccc 420
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ccagagtagc agcaagagag gaaacgttgt gaattaagta ttcaattaaa aggaaacatg 1260
atttctacct gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1320
aaaaaaaaaa aaaaaaaaaa aaaaaaagg 1349

<210> 1170
<211> 1273
<212> DNA
<213> Homo sapiens

<400> 1170
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ggaataattg ccctccttta tatacttatc tattgataat cccctctccc tccagaacac 180
aaatcagagg gaaagggggt gttcagctgt actaccaaat caggaagatg taaggtttac 240
aaattggcta agaatcatgg ctctgtagcc atttcaacca gaataatttt attgctaatc 300
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gttgtaaatc aagtgtgtgg atctcaaagg gtgcaattta tctttatata ggaatacatt 480
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aaagcaatgt accttctgga acaataaata cttattcaat ttttgaaaaa aaaaaaaaaa 1260
aaagggcggc cgc 1273

<210> 1171
<211> 1468
<212> DNA
<213> Homo sapiens

<400> 1171
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gattgtaaga atcccaatgc accattccag atccggcaca gtgacccaga gagtgacttt 420
tatcgtggga aaggggaacc tgtgactgaa ctcagctggc actcctgtcg gcagctcctc 480
taccaggcag tggccacaat cctggcccac gcgggctttg actgtgctaa tgagagtgtc 540
ctggagaccc taactgatgt ggcacatgag tattgcctta agtttaccaa gttgctgcgt 600
tttgctgtgg accgggaggc ccggctggga cagactcctt ttcccttgaa tgggaaggag 660
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aaaaaaaaaa aaaaaaaaaa agggcggc 1468

<210> 1172
<211> 1176
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (639)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (700)
<223> n equals a,t,g, or c

<400> 1172
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cataatcagg tggcccaaag gactgaacaa ggaagaatgg gagggcactc tagactaatt 240
aaggttgtct tttcagtcta aagttaacaa tgacacacat gaattttcat atcagtataa 300
ttagatgcgg gtcccatcta attacagtgg gtcattatgg ctgttcggtt agagcagctt 360
gggtgctctg tgaccatggc atgtgcccgt gtcaggacta gacaaagtca tttgcttggg 420

gaagctctct ccccttcagg tgtgaggcca ggagcacctg gtgtgggtcc tgtccctgag 480
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rgatagctta tgraatccaa atcaaaggtc cagagtttnc agcaaattgt acctacctat 660
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tttatctaac ctctctctgc atttagtaag tcaatgacag agttagtctc caaccactgt 1140
gttatgcttt ccatgggtaa agcaacctaa aaaggc 1176

<210> 1173
<211> 1779
<212> DNA
<213> Homo sapiens

<400> 1173
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gcacgtatct gagagacacc tgcaagcaca cactgtccca gctggtaccc ataatgctgc 120
tgttcctgct gctgctcctg ctttcctctc ttctcgcttt aaatgattgt tagcaagtta 180
gattttcctg gagcttcgga agaaatgaaa atggaaacat gatgaagata tagtcactga 240
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ccatatagca ttatttttat aggaaatatt tcatgtccct taaatatctt gttagttata 360
gggatggaca gtttatgtta agcacttagc ttaaacaatc cgtttatatt agcactgtat 420
cccttgtgcc atccaacatt ttgtatgttt ttgtaaacag ttcatataca gtacatttct 480
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aaaaatggcc agattgtgga acagctgttg aatgtaatac ttccaaaatg tacatatctt 660
tccccacgtc tgtttcactg gttcgttcat ttgtttgttt cttaaagtca ggtgctctgt 720
cagactaacc tagagagctg ttatggtaga gaaagttatc atatgtgtgt ggcatgaaat 780
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ggcgtgcacc tgtaatccta gctactcagg aggctgaggc aggagaatcg cttgaacctg 1680
ggaggtggtg gttgcagtga gccaagatca caccattgca ctccagcctg ggtgacagag 1740
tgagactctg tctcaagaag gaaaaaaaaa aaaaaaaaa 1779

<210> 1174
<211> 1473
<212> DNA
<213> Homo sapiens

<400> 1174
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tcagtagatt gggtcagata agacgccatt tgaccaggtt cacgtttttg tggatcgagg 120
ggtttcccat ggagtgatat aatgggggcg cctactagga agtgcagtgt tcagtggctt 180
tctctatctg ttcctttcct cagcgcccag tgtagcgcgt ggcgttccat ataagttgtg 240

gaattgaaat ggattccagg gccatgccat tccccttctc tcattctcct cgctctccac 300
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ggagcagctg gcagctctct tgccgggctt gcacggcacc cgggctcagt tgtaggtggt 420
aaggggggctg gaagactgtg tccggctcct gccttgggga ttccgaattg aatccgcgct 480
gagactagaa cacgccctcc caagggagca gtcccagagt catccacccg aggcggatta 540
atcttctctg agtagaaatg tgaaaagccc acaccggcca ggaaccctcg cttcgattca 600
ctttattttc cagccagcga ttttcctttg aacataggga tcccatccag gaggaggaga 660
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<210> 1175
<211> 779
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (652)
<223> n equals a,t,g, or c

<400> 1175
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cacagtcaat aatagcaaga tagcataaat tgacttttтc cgccctaggg atatatagtt 120
tatcttcttc agatttctga ggattaaccg aagcaatttt taccagcatt cacttcttcc 180
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gacacagaac acataacagt gagaagtaac gactagttca taatataaaa gnccttttata 660
ctttttcaat aaatacggta tttggttaaa aaataattat gttgacttag wgattaaaat 720
ttgtttaaat ctattactaa aaaagaacac gcaatgatac acaccaaatt taaaaaaaa 779

<210> 1176
<211> 1332
<212> DNA
<213> Homo sapiens

<400> 1176
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ataaggcaca tttgctcaga tatattcttt ttcttatctt ccccagtttc tctcattccc 120
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aaaaaaaaaa aa 1332

<210> 1177
<211> 2129
<212> DNA
<213> Homo sapiens

<400> 1177
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaa 2129

<210> 1178
<211> 2332

<212> DNA
<213> Homo sapiens

<400> 1178
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ataaaagttg gagaaaaaag aggatggttg attttaaact ctactgactt ggttgacttt 180
tacttgatat gtgctatctg aaaaaatgga caatggccac tccctcattt ctttttttct 240
tccttttatt gaattttaac agcagttttg tctggctctt ttcatttctg tgtttatttc 300
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aagtcactgt gtatctgaag ccaaaattac acttagtatt tcatgcggtt ttggctgatt 420
tcctttctat ttttcttcat taagcaagtg ccatcaaggc cagcagtacc catattatat 480
gtccagagaa gagccaggcc agatgggaac tgcgtgaaag caaccagtta tcttgctaat 540
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tcaggggga taatgaagta ttaatttat aatatatgct tgaaaatagt acagtttgga 2280
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<210> 1179
<211> 1907
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (24)
<223> n equals a,t,g, or c

<400> 1179
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tccccacggg agaaagaatg gcaaattgga aagctcgggg cttgacatta atatgagtga 180
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<210> 1180
<211> 1639
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1623)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1624)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1625)
<223> n equals a,t,g, or c

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taaacactcc ccatgctccc tgctttgtgc ttgaacgact tgatgacaag ggcagagcaa 180
ggtgagaatt taaacaggac cacaggaaaa aaaaaaaaga caaagactgg caacaacata 240
atgcgaggga gggggagttt actggtttgc agtctaaaag gtacataata actttcttca 300
aagcaggcct taacagtgta ctaatttaaa cttcaacatg ggcatggaat tacccgtaga 360
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ttatttgttg ttaacttcct tcggcagacc cattaagcat ttagatacat atttgtgttc 480
agatgtatca tcctcaggga aaggagatgc tgtattttga ttaagtggtg catttcaagg 540
tatttcaagc tattcttaaa taattatata ggcacatttt agagtattcc tccataaaaa 600
aatatttgag gatctggatg ccttgctagc tgtcgcactg catttcttag caatctgtca 660
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aannnaaaag ggcggccgc 1639

<210> 1181
<211> 1858
<212> DNA
<213> Homo sapiens

<400> 1181
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tacatcactt tgctgtgtgt gtttacacat gtgggttttg ctgtacttgc cctgacagca 180
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acagatatac catataataa catggtgtta ttataaatga tttaaaaaaa aaaaaaaa 1858

<210> 1182
<211> 1036
<212> DNA
<213> Homo sapiens

<400> 1182
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ttgtatatac ttgtattcta taattttaaa ataagcataa actctcaaaa atgggagagg 120
aaacggcaac aagattttgg aagctggagg caaatatatt agtggtaact gatttaacca 180
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aaaaaaaaaa aaaaaa 1036

<210> 1183
<211> 849
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (844)
<223> n equals a,t,g, or c

<400> 1183
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aacagcgcag agaatggtct cacaagctca gaagggatct gggaggaaat gaactgctaa 720
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ttttgcagtg agcacatacg acttatataa taaaaaaaat tccattttga aaacaaaaaa 840
aaanaaaaa 849

<210> 1184
<211> 1759
<212> DNA
<213> Homo sapiens

<400> 1184
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gtctctcttc atcttacaaa aaaagtagct ttgaaacaac taatatgctc ttttttcttt 240
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Attorney Docket No. 10794-0054

PCT/US2003/041429

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<210> 1192
<211> 1658
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (778)

<223> n equals a,t,g, or c

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<210> 1193
<211> 1167
<212> DNA
<213> Homo sapiens

<400> 1193
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<210> 1194
<211> 1671

PCT/US2003/005459

<212> DNA
<213> Homo sapiens

<220>
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<222> (1050)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1478)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1541)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1632)
<223> n equals a,t,g, or c

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<210> 1195
<211> 506
<212> DNA
<213> Homo sapiens

<400> 1195
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tctcaggtca aaaaaaaaaa aaaaaa 506

<210> 1196
<211> 1721
<212> DNA
<213> Homo sapiens

<400> 1196
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cggccctgac atgggcgcca gcgggtccaa agctcggggc ctgtggccct tcgcctcggc 180
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<210> 1197
<211> 1994
<212> DNA
<213> Homo sapiens

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<210> 1198
<211> 443
<212> DNA
<213> Homo sapiens

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tttctaaaaa aaaaaaaaaa aaa 443

<210> 1199
<211> 1560
<212> DNA
<213> Homo sapiens

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<210> 1200
<211> 463
<212> DNA
<213> Homo sapiens

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gcaaatcttg gaattttgtt ttttgctgtt tccagatgta tctataaata tctatacatt 180
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taaagaacct aagaagaaaa aaaaaaaaaa aaaaaaaaaa aaa 463

<210> 1201
<211> 477
<212> DNA
<213> Homo sapiens

<400> 1201
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tgtttagatg tgtatgaaat acctgtatac gttagtgaaa gctgtttact gtaacgggga 120
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aaaatgaaaa aaaaaaaaaa aatagaaaca aaaaaaaaaa atttctaggg ggggccc 477

<210> 1202
<211> 687
<212> DNA
<213> Homo sapiens

<400> 1202
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gaggcaggtg gcctgtggac agaagtaatc ctctttctgc tcaccccagg cagacacaac 180
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 660
aaaaaaaaaa aaaaaaaaaa aaaaaaa 687

<210> 1203

US 2003/0224359 A1

<211> 1877
<212> DNA
<213> Homo sapiens

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<210> 1204
<211> 782
<212> DNA
<213> Homo sapiens

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<210> 1205
<211> 1003

Application Serial No. 09/895,560

<212> DNA
<213> Homo sapiens

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<210> 1206
<211> 1692
<212> DNA
<213> Homo sapiens

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<210> 1207
<211> 1274
<212> DNA

EFS-Web Submission

<213> Homo sapiens

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<210> 1208
<211> 1601
<212> DNA
<213> Homo sapiens

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<222> (12)
<223> n equals a,t,g, or c

<400> 1208
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<210> 1209
<211> 766
<212> DNA
<213> Homo sapiens

<400> 1209
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<210> 1210
<211> 3237
<212> DNA
<213> Homo sapiens

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<222> (1)
<223> n equals a,t,g, or c

<220>
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<222> (6)
<223> n equals a,t,g, or c

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<222> (32)
<223> n equals a,t,g, or c

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<222> (3237)
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<210> 1211
<211> 2070
<212> DNA
<213> Homo sapiens

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<210> 1212
<211> 1259
<212> DNA
<213> Homo sapiens

<400> 1212
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cacctaacaa aactatcata aatatgagat tatagtaatt actaaagctg gttaaaggca 240
catgacaaca taattccttt atacacatcc agtcatttta tacaaggaac tgctatccct 300
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<210> 1213
<211> 1905
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (846)

<223> n equals a,t,g, or c

<400> 1213
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ccccaactgt gggagtgtct gtggctctgc agagagaagg catagactcc cagtctttaa 180
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ccataaagga gaagacactt actgggccaa aatcaccaac agtgtcccct gttccatctc 300
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atgataagga caccaaacca aatccaaaag ccagttcttc tgtacctgct tcactggccc 420
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ggttttccaa tcaactgtat attaaggtac tcatatccat tctttggaag tgcagctcct 600
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tactgtgcat ttgattttgc aactatgcct catcagstgc aagmcmcctt cttaaggatt 720
ccattactgg ttgaactatg gcmcaaggat waaatgagta aagatttact tctgggaatt 780
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aattcaaagc atttaaagga aaaaaaaaaa aaaaaaaaac tcgag 1905

<210> 1214
<211> 1147
<212> DNA
<213> Homo sapiens

<400> 1214
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ctagcttcta gaacaagata accactgctg ctgatggata cttttccctc actgccatgg 180
cacaccagtc atggatcttg taatcatgcc aagagaatag atacattatg gacctcttgt 240
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aattatttag tgagagaaga gttagagcaa aagacagtgg taaatgtttt attccgtctc 480
catgaggaat tgaaggagtt ggtctccacc tagagataca tttgatttac agcttaagta 540
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actcgag 1147

<210> 1215
<211> 998
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (358)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (481)
<223> n equals a,t,g, or c

<400> 1215
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tttatgattc tactctttta attttttaa taattacttt atgacttctt cattagggat 180
tctctcctcc agtgcgtacg cagatcttct gaaaaggaat ctgacaaatt tagttgctgc 240
atttttctaa attgctttca agactaccca gcacttcaga tacttttcat ggccctttt 300
cccaaagtgt tctccaggat gcctttgatc tgcacgggca atcccattag cagtggangg 360
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aacagcttgc tgtaccgact catatgaggg ctgtcttggt ccgtctcatt taaggtttgg 480
ncttctccaa agwttagaca ccytgttttc gttcaacctt tgtttggctt tgaagcatca 540
tgcacttggg tcttgaaatc ttgggctcac cgctgcttgt accagtatct tctaccctcc 600
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agaccctgtc tcaaaaaaaa aaaaaaaaaa aaactcga 998

<210> 1216
<211> 810
<212> DNA
<213> Homo sapiens

<400> 1216
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gatgagaaac tgcggctgca gcagctgcga gagctgagaa ggcgatggct gaaggaccag 180
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tggaataaat ttttggagaa taaatcccct tggaggaaaa tggaaaaacc atatggcata 300
gttgaaaaga agtccagaat attccctgta agtcttaaca cttctgattt tyctttttgtt 360
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aactctcatg tcctatggct ttgtacctca ttttcaagat ttgaccttaa gttctccatc 780
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<210> 1217
<211> 436
<212> DNA
<213> Homo sapiens

4924560.60056.0

<400> 1217
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tgtggccgcg gcagcccagc tcttaagggg acagcctggg aaaacagact tagggacaat 120
gatcttgagc catgaaatga tgtccaatgc cccttgtgcc acctgacatc agcctgatta 180
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cacgccgtgg gaacttggct cacttcctag ggggaagctg tctggactgg cccagagatg 360
ggcaccacca tttcccaata aacacaagat aaaatcaaaa aaaaaaaaaa aaaaaaaaaa 420
aaaaaaaaaa aaaaaa 436

<210> 1218
<211> 3714
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (2324)
<223> n equals a,t,g, or c

<400> 1218
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tggcatttta gcagaggctg ttccatgcag agataaaagt attcgaatga gaacaagagt 120
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<210> 1219
<211> 1263
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (184)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1254)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1255)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1261)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1262)
<223> n equals a,t,g, or c

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aacagacagc cacgcacctc cagctggcct tgaacttcac cgcccacatg gcctaccgca 180
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cccgtgactg tggcgagtac gcccacactc gctacttcag gggcggcatg ctgaccaacg 300
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nna 1263

<210> 1220
<211> 1476
<212> DNA
<213> Homo sapiens

<400> 1220
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gttatggagc ttccctcagg gccggggccg gagcggctct ttgactcgca ccggcttccg 120
ggtgactgct tcctactgct cgtgctgctg ctctacgcgc cagtcgggtt ctgcctcctc 180
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<213> Homo sapiens

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PCT/US2003/033630

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<220>
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WO 2004/063355 PCT/US2003/040550

<210> 1226
<211> 787
<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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aaaaaat 787

<210> 1229
<211> 799
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (11)

<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (13)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (779)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (793)
<223> n equals a,t,g, or c

<400> 1229
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ccactggcga gacagtttac tttgccgact tgccatgttt ttgccaaaac caagattttg 480
aaggaaatga gtggccagcg ccagggccca ggccatgtgg cctgcccagc ctcaatgtca 540
cttggyggcg gggtggggtg ggggtgggca gcagcatccc agccttgaga tgcttcactt 600
tccttctctg taaccagact ttgaaaaatt gttcgtttca tcaggctctg ttcctcaatg 660
gccttttgct acgtgcctcc cgagaaattt gtctttttgt ataaatgaca aagtgttgaa 720
aatgtatttc ctgaaataaa tgtttcaaat gcagaaaccc aaaaaaaaaa aaaaggggng 780
gccgttttaa agnatccaa 799

<210> 1230
<211> 1726
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1695)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1707)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1710)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1724)
<223> n equals a,t,g, or c

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agctccgctg cagtacagcc tgctcctgca gtacctggtg ggtgacaagc gtcagccccg 120

gctcctggag cctgggagcc tgggcgggat cccaagtcca gccaagagtg aggagcagaa 180
gatgatcgag aaggcgatgg aaagctgcgc tttcaaggct gcgctggcct gcgtgggagg 240
atttgtctta ggaggtgcat ttggggtgtt taccgctggc atcgatacca acgtgggctt 300
tgaccctaag gatccttacc gtacaccgac tgcaaaagaa gtgctgaaag acatggggca 360
gagaggaatg tcctatgcca aaaatttcgc cattgtggga gccatgtttt cttgtactga 420
gtgtttgata gaatcttacc ggggaacatc agactggaag aacagtgtca tcagtggctg 480
catcacggga ggagctattg gtttcagagc tggcttaaag gctggggcca ttggttgtgg 540
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cagggtcaag gaagtgtttt aacatgtcgt gttttcgact tgaccttgtg gtatttttct 1620
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aaaaaaaaaa aaccnggggg ggggccnggn accaaattcc cccnaa 1726

<210> 1231
<211> 936
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (168)
<223> n equals a,t,g, or c

<400> 1231
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gaaatattcc tttaacacat gtggtgtatt ttctcaccta cgtatgtntc ctcttcctaa 180
gtagtttaaa acacacacac gcgcgcgcgc gctgtgcaca tgcttattca ttgactaagt 240
tatccatgaa cctgtcattt ctgtcttctg gagcaacatg gaatctcata tttctatctt 300
aatcacatat gtttaatttt gcctttgttt tgtggtctgt gggtacattt gttattttta 360
gtatcaagtc atttggctaa atcatattaa attgcaatca cctaaaatcc cctggttatt 420
ttgacttaaa tgactgtcat ctttggtttc ccttacttag aacgtcacac agttaatttt 480
ttttttcaac ctaatggcaa gtgtgtgtgt gtgttcttgg agtagttctg ctggctatga 540
agagtatgta gtaatatgct aaagctttgt aaactcttct tttgttgttt tggaagatgg 600
agtgttgctc tgttgcccag gctggagtgc agtgatgtga ttttggctca ctagagtctc 660
caccttctgg gctcaagcag tcctctcacc tcagcctccc tggtttgtgg aactacaggg 720
gcatgccagc atgcccggat aatttttgta ttttttttct tttgtagata cagagtctca 780
ctatgttgcc caggctagtc tcaaactcct gagctcaagc agtcctcctg cctcagcttc 840
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aaaactataa gtttatactt aaaaaaaaaa aaaaaa 936

<210> 1232
<211> 698
<212> DNA
<213> Homo sapiens

Feature Systems

<400> 1232
gcttctttaa gattcgtctc tgggaagaga tttacccagt agagatcaga gccggacatt 60
ttattgtttt ccaagtttga ccttttcatt tcaggagcat caagcatgaa gagccaatcc 120
agtttaagtg tgggcatctt gagagtaaca ctgtgtcttg ttccttcttg tgttcctgct 180
attgactgca atgctcagta aatgtttcag gcatccacga atgaatgatt gaacaaatca 240
acaattaatc aattaataaa tgaaagctat catcatcagg tggaaataat gcttttaagt 300
aagactaagg gcttttatca ctacagagca taatagaaag gaaacaagcc aattaataag 360
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ggtgcgtgcc tgtagtccca gctactcagg aggctgaggt gagaggatca cttgagcccg 600
ggaggtcgag gctgcaatga gccatagtcg ccaccgcatt ccagcctggg tgacagagtg 660
agaccttgcc tcgaaaaaaa aaaaaaaagg gcggccgc 698

<210> 1233
<211> 903
<212> DNA
<213> Homo sapiens

<400> 1233
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taagtgaagg agcaaatact atggacattg gacggactgt gcttcagaac taccttcctc 180
gtcacaggct tgatgctggt actttcggaa caatgggagt tggtttggga tttgctattg 240
cagctgccgt ggtggctaaa gatagaagcc ctgggcaatg gatcatctgt gtggaaggag 300
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tcatactgtt ggtagtgaat aacaatggaa tttaccaagg ttttgataca gatacttgga 420
aagaaatgtt aaaatttcaa gatgctactg cagtggtccc tccaatgtgt ttgctgccaa 480
attcacatta tgagcaagtc atgactgcat ttggaggcaa agggtatttt gtacaaacac 540
cagaagaact ccaaaaatcc ctgaggcaga gcctagcaga cacaactaaa ccttctctta 600
tcaacatcat gattgagcca caagccacac ggaaggccca ggattttcat tggctgaccc 660
gctctaatat gtaaataaag acgccagttg gtggtcttga gttttctctt tcttgcaaga 720
tgaaatttta ttttccacag caaaattact ctactgttaa aattgtgcaa aataaaataa 780
acatttaaaa tgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 840
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 900
aaa 903

<210> 1234
<211> 1971
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1270)
<223> n equals a,t,g, or c

<400> 1234
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ggaggaaaaa ataaaaaaat aaataaaaat ttaaaaaaag aacacttgaa gttactcaga 120
tcaggactca tgcagagaaa agccaacagg agcaacaccc cacattaggg gaggaagaca 180
cctggggatt cactgacttc agttgtgtga attttaccct atgaccttgc ttgctttatg 240
agacagcaga ggtggccaag gtcaatccta ctgctctgtg gtgaactctg cttttctctc 300
gttaccatag gtaaagggtc atgctcctat gtaagccttc ctgttcccca gtcatttgtg 360
cacggggtag gccatcatct cctgcctatt caagggaatg actagtcctg tcttctgtat 420
cctcagtcac caacttctca gttagtgttg aaccaagcct atgttcaaaa catgactgag 480

acagacctca atccatagag atttatttag ccaaggtcca aggacacatc taggaaaaaa 540
tacgggatca caggagcatc tgcgccttct amtttttcca aagagggttt tgggaacttc 600
agtatttaaa ggggaaacag caagcaggtg aggaaaaaaa gcgaggaagt gtaggcagtg 660
acagatgctc acattcttgt gaaactctgt ttaccctagt aaatctgcat tttacatgtg 720
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ataaattgca gcctaattta gtacataaac ccaaacctaa tttaggagta aatttttttgt 1260
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ccttaagcag actgatttac aaaggcctga acaagtttga tattctgaat attcacttct 1680
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tattataaac acacctttgt acctttttta atcctgaaaa atttctaata aatatgcatt 1860
taatattatt tgtatttaat attaagtgta tttaatattg cccctgtttt gtgaattaat 1920
gcagcaataa actggcttgc aatggaaaaa aaaaaaaaaa agggcgsccg c 1971

<210> 1235
<211> 1086
<212> DNA
<213> Homo sapiens

<400> 1235
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gagattgctc agaagcaaaa actgcagact gtcctggaga agatcaatga aaccctgaaa 120
cttcctccca ggagcatcaa gtggaatgtg gattctgttc atgccaagag cctggtggcc 180
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catgtttcca tccaagtggt tgtggtccag aaacgagaag gaatcctcca gtctcggcaa 300
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tttgacacct tgttcgacca tgccccagac aagctgaatg tggtgaaaaa gacactcatc 420
actttcgtga acaagcacct gaataaactg aacctggagg tcacagaact ggaaacccag 480
tttgcagatg gggtgtacct ggtgctgttc atggggctcc tggagggcta ctttgtgccc 540
ctgcacagct tcttcctgac cccggacagc tttgaacaga aggtcttgaa tgtctccttt 600
gcctttgagc tcatgcaaga tggagggttg gaaaagccaa aaccgcggcc agaagacata 660
gtcaactgtg acctgaaatc tacactacga gtgttgtaca acctcttcac caagtaccgt 720
aacgtggagt gaggggctgc cctgggccca ccactgccca agagttcttg ctgttggcgt 780
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aaaaaa 1086

<210> 1236
<211> 559
<212> DNA
<213> Homo sapiens

<400> 1236
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acagttcagt ttaagtctag catattgcta cttacttttg cctcaatttt tctctcttct 120
tttcctgcct tctcttattt taatcaaata gtcttgacta tctcattaca tcatgtattc 180

tagttatttt atgtatctca atattattgg tttagtggct aacttagcaa ttacaacaaa 240
actaactaat actaacatct cagacgctca ggaaatagaa accgtctgaa ctatcctacc 300
cgccatcatc ctagtcctca tcgccctccc atccctacgc atcctttaca taacagacgm 360
ggtcaacgat ycctcccctta ccatcaaatc aattggccac caatggtact gaacctacga 420
gtacaccgac taaggcggac tagtcttcaa cttcctacat acttccccca ttaatttcct 480
agaaccaggc gactgcgact ccttgacgtt gacaatcgag tagtactccc ggattgaagc 540
ccccattcgt ataataatt 559

<210> 1237
<211> 1425
<212> DNA
<213> Homo sapiens

<400> 1237
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gttcaacttt tgaagtgttg gttgtgcgat gtgtggtcag gtgttgtcgt ggagaagaat 120
tgggcccctt ctgttgacca atgccagctg caggtattgc agttttaggt gcatctcatc 180
gatctgctga acatacatct cagatgtaat ggtttcgcca ggattcagaa agctgtagtg 240
gagcagacct gcagcaaacc accaaacact gaccataact ctttttgggt gcaaatttgg 300
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acggttgtca tataaaatcc acttttcatt gcacgtcaaa atccgattga gaaatgcttc 420
atcattgttc gatagaataa aagaaamcat ttcaaaatga ctttttttgat ttttggtcag 480
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aagtaacttg gaagtcatac ttgcaatatt aaggagaact tactgtttca acctagtcct 1380
tcaagaacta aaatgtaaaa aaaaaaaaaa aaaatgatcc tcgag 1425

<210> 1238
<211> 2324
<212> DNA
<213> Homo sapiens

<400> 1238
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gttcataggg ctcgtcctcc agtcactact gtagaggcag gaggggagct cttatatcca 180
tagctgcttg attcccccctg tattttgtct ttctgttaac gcacataagc acatcataga 240
ctacataaca gcagtgtgag gagttcaata catgcatgta gacatacatc tcaaccaaac 300
ttagtgtcag aaaaagcaac ttcaaaattc ataattcagt gaaaagaaga agaacatggt 360
tggtccaaat gccacgacaa gctcaacaat cacaccagga atagaacctc ataaaactct 420
tgtgctaaga agcagttttg tgataatcaa agcatctctc ttttcactca ggtctaggta 480
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actcaagtct tgtttacatt tgtacatttc acaaaacttt ataaattctc catcattaaa 600
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aacacaaaac aatagaaagt gctcttttat tcactcaagt cctaaaggtg ctgtactctg 1020
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Patent Application Publication

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<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
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<222> (16)
<223> n equals a,t,g, or c

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<211> 2154
<212> DNA
<213> Homo sapiens

for 35525350

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<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<211> 808
<212> DNA
<213> Homo sapiens

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<211> 839
<212> DNA
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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<221> SITE
<222> (141)
<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

<220>
<221> SITE
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<212> DNA
<213> Homo sapiens

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<221> SITE
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<210> 1260
<211> 880
<212> DNA
<213> Homo sapiens

<400> 1260
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tccctcttgg gcagctgggc tgaggactgg aacattctgt ggcaagcagg aggcctcagc 360
agagatcacc aagacccagc acacctggtg cagacagcca cggcatcctc cttcctgcag 420
gtcaccccca cgagccactt aacctctcag agcctctgct tctcacctgt caagtgtgtg 480
aggtagggta ccagttagtc acggtacttg ctgtctcaca gaggagccga caggtgagaa 540
cagtgtgcat gtgggtgtga acactcagtg tggaaagcag gtgtgtgtgt attcaatccc 600
ccaatggtgt caagggctcc tcaaaatgcc atgggtcccc aggtcattgt gataaacact 660
gtccccatcc tgctgtggtt gtggctggaa ggtccctcaa ggagtagact gtccctgaga 720
acaagatgga tgcagggtag tgacgagttc aagcatagct agagttactg ttttttagca 780

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ccatgtaatt tgtaataata ataaaaaaaa aaaaaaaaaa 880

<210> 1261
<211> 1154
<212> DNA
<213> Homo sapiens

<400> 1261
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gatcgtgcaa ggaattcggg ccatggaagt tgactctagc cagtactctt tggaattgat 480
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aggaagatgc attataaaca ttctccttca tgtacaagtg ttgattataa tgaggatcct 600
gagcagagac ctactgcaga tgaacttcta gatcgccctc ttctcaggaa acgcaggaga 660
gagatggagg aaaaagtcac tctgcttaat gcacctacaa agagaccaag gtcaagcact 720
gtgactgaag cacccattgc tgtagtaaca tcacgaacca gtgaagtcta tgtttggggt 780
ggtggaaaat ccacccccca gaaactggat gttatcaaga gtggctgtag tgcccggcag 840
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aaaaaaaaaa aaaa 1154

<210> 1262
<211> 1124
<212> DNA
<213> Homo sapiens

<400> 1262
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tgcagtagca ttatttgttg gacagtggca cctactggta gtttgtaatg tttatagcct 180
agtgtgaaag gcattgtaaa tgtataccta gcaaaaaggg gagtagagca aaatttccag 240
agttttacaa atgaaatgaa ggatgatatg ggggagagtc ctttggggcc aaggagagag 300
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gaggtcatct ttccatctca ctgggattgt ccctgaaagt gtctcactgc ttaggtctcc 420
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ttgaatcgta gtgttgtagg gctaaaagaa acctcaggcc aggctgcatg gtgctcacgc 840
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<210> 1263
<211> 816
<212> DNA
<213> Homo sapiens

PCT/US2005/036956

<220>
<221> SITE
<222> (720)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (735)
<223> n equals a,t,g, or c

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caagacattt catataaatg gaatcatacg atatgtggtc ctttgtgact ggtgtctctc 180
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ctggcttctc tcacttagca tagtgttttt aagatccatc catattgtag cattatcagt 360
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 816

<210> 1264
<211> 1232
<212> DNA
<213> Homo sapiens

<400> 1264
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aacttcaggc agatggcaag agctgcaacc ggtgccggga aggccacgtg gaccttgttc 180
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<210> 1265
<211> 854
<212> DNA
<213> Homo sapiens

<400> 1265
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tatgtgctca ttgtcactga agtgctggaa gactgggaag attcagttaa cattggaagg 120
aagagggaat ggtttaaaat agaagacgcc ataaaagtgc tgcagtatca caaacccgtg 180
caggcatcat attttgaaac attgaggcaa ggctactcag ccaacaatgg caccccagtc 240
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tccctctaac caccctgca gtcctctgaa gagaggccaa cagccttccc ctgccttgga 600
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attttttttt tttattaaaa gataccagta tgagatgaaa acttccaata atttgtccta 720
taatgtgctg tacagttcag tagagtggtc actttcactg cagtatacat ttatctacac 780
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<210> 1266
<211> 2092
<212> DNA
<213> Homo sapiens

<400> 1266
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aatttttata atatcttgca tatatcttta ttatcacatt gttattgtta catgcactgg 180
tgttttctct ctggattaag attgccatct ttatataaaa tggaatacat gattattcca 240
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gatattttag tagataaaat tctaggttag tagaacatag accacatgtt ataagctgat 600
atcagttgat ggaagaaaaa tggttttaca agttattttc aggatctcta tcaaaccttt 660
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gttactttac agcctgtaat agtgtgtctg cattttcaac ctgttgcaat aactttgctg 2040
aaatattaac acattaataa aacttttctt aaacaaaaaa aaaaaaaaaa aa 2092

<210> 1267
<211> 1352
<212> DNA
<213> Homo sapiens

EP2275536A2

<400> 1267
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gaaactcact gattttggca tacagctata tgagtattga caaacagtcc tagtcctgca 180
accatcacca cagattagga acatttccat cacccctaga aattccctcg tgccccttg 240
tagtcattcc ctgcatctgg gcaactacca atctgtttgc tgtccctgtg gtttctaggc 300
attattggaa acctgttttg tttataaccc cttttcacct cctcttctgt gttcctytct 360
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gtgatcagga cctgctgcag atgtttatgc cctttgggaa tgtcgtgtct gccaaggttt 780
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<210> 1268
<211> 1658
<212> DNA
<213> Homo sapiens

<400> 1268
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cattcatttt gaataatctc acttatttac tcagtaaata tatgttgctt gcttaccata 180
tatttatttc agtaagtata tgtcgcttgc tgggtcctgg taatgacagt ggtgagtttc 240
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ttcgtgattc agatgtgcct tgtagacaag cacagatctt cactgctcac ttctgccata 1620
aatgcttcac aaattaaaaa aaaaaaaaaa aaactcga 1658

TOP750 - 20050568

<210> 1269
<211> 774
<212> DNA
<213> Homo sapiens

<400> 1269
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ttaattatct tgttcttcgt ccaagagtca agtagtaggc atgagtacac tttttacatg 180
gcttatggtt ttacgttatc ttctaccaaa cagctgtttt gtacttaata ggcctagttt 240
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<210> 1270
<211> 411
<212> DNA
<213> Homo sapiens

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ctgcgcaggc aggactctgc tgtcccctgc tgctcctgat aacaaacgcc ttaaggatat 360
gaagcttcat ggaccttgtt aaagtttttt ctctttaaaa aaaaaaaaaa a 411

<210> 1271
<211> 779
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (709)
<223> n equals a,t,g, or c

<400> 1271
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<210> 1272
<211> 638

<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<210> 1273
<211> 1055
<212> DNA
<213> Homo sapiens

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<211> 1161
<212> DNA
<213> Homo sapiens

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<210> 1275
<211> 1681
<212> DNA
<213> Homo sapiens

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acaagaataa agatgaaaat gcagaaactc agtttagaca attggtggcc atttatgaag 180
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cattactctt gttcattatt ctcacagtgg gtcattatgc tgtggtttgg tcaatctacc 360
tgggaaaaac aactggatga actactaagt ttgaaaaaag agagaaaaga aaaaaaagac 420
tggcagcaag agtgtggatg tatcaaaact cggtgcttca gaaaaaaatg aaagattgct 480
gatgaaacca cagtggcatg atttgcttcc atgcaaactg gggatttggt tttgccttac 540
actaaaagca ttacctcacc tcatccagga tgctgggcag ttttatgcta aatataaaga 600
aacaagattg aaggaaaagg aagatgcact gactagaact gaacttgaaa cacttcaaaa 660
acagaagaaa gttaaaaaac caaaacctga atttcctgta tacacacctt tagaaactac 720
atatattcag tcttatgatc atggaacttc catagaagaa attgaggaac aaatggatga 780
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cagcgaagcc ggagccagag gagaagtcca gagccaagcg gcagaaggac tttgacatag 1260
cagaacaaaa cgagtccagc gacgaggaga gcctgagaaa agagagagct cggtctgcag 1320
aggagccgtg gactcaaaat caacagaaac ttctggaact ggcgttgcag cagtacccaa 1380

Fig 2 of 2 - 6,004,528

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c 1681

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<212> DNA
<213> Homo sapiens

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aaaaaaaaaa aaaaaaaa 678

<210> 1277
<211> 610
<212> DNA
<213> Homo sapiens

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gttaatgtgt gagacttatt attaagttaa aaagcaacca cattttcaca ttttgcattt 180
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atctaattta tttttatttt attttgtttt atttttgag acagagtctc actccagcct 540
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aaaaaaaaaa 610

<210> 1278
<211> 1264
<212> DNA
<213> Homo sapiens

<400> 1278
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aggatttaca tcaggaaaaa taacctgaga atagatgtgt tttgtttgaa tgtcgtagtt 120
gtgccctttg taaaattacc ccagggcatg ataagaaaag gagtaagcaa ttaaaatgca 180
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gccc 1264

<210> 1279
<211> 942
<212> DNA
<213> Homo sapiens

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<211> 1522
<212> DNA
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<223> n equals a,t,g, or c

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<210> 1281
<211> 1446
<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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<210> 1283
<211> 921
<212> DNA
<213> Homo sapiens

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<222> (773)
<223> n equals a,t,g, or c

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<221> SITE
<222> (813)
<223> n equals a,t,g, or c

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<221> SITE
<222> (851)
<223> n equals a,t,g, or c

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<222> (885)
<223> n equals a,t,g, or c

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taatcccagc actttgggag g 921

<210> 1284
<211> 1059
<212> DNA
<213> Homo sapiens

<400> 1284
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tgttttccct cttccttttc ccatatcggg tgtgcgaacc tctgctcacc aagtaccagt 180
cgggtccttc tcctgcccac gtgaaggaag aaggcgcagt ggggctgagg cctcactagg 240
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cagcagcagc cccaggacgg acgggtacgc caagtcctgg ggaccctctc ccaagctctg 360
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cgcgggcagg ggtgccgggc ccaggctccc cagccattct caggccagaa ccccctttt 540
aacaagacat ggccttggtg tgtcgcggac tctgccgggg acagtctggc agaactgggc 600
tccttgcgct ccccagtata ccggctaatt ccgtgccctt tgcaaacttc atattttgat 660
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gagacttttc ttccgaaact atgttcagag agtgactgca gtattgcctt ggcaatctag 1020
tgaatgtatc ctcaccgcat taaaaaaaaa aaaaaaaaa 1059

<210> 1285
<211> 590
<212> DNA
<213> Homo sapiens

<400> 1285
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tgaatctggg aggtggaggt tgcagtgagc cgagatcaca ccactgcacc ccagcctggg 120
caacgagtga aacttcctct caaaaaaaaa acactgcact gagaggcaga agacctaatc 180
tcctgaacct ctgtgtatct cagtgtcatc atggacatga tgagactgga taagcctcag 240
agcctctggg gaaggctgtt tgcaaacatg accacagttt ctcccatccc tataagttgc 300
ctctttgcag cttgacattg ctgcttctct tgtcaagaag tggagatttt tttcccctct 360
ccttgaatct gggctagctc tgtaacttgc tttgaccaat agacagaagt gacctgatgt 420
gacttttgag tctaagcctt aattgcctcc actgtcaccg tcttggagcg atagtgtagc 480
cctgtgaaga agcctgggct ggcttccttg aggataaaag accaggtgcc acagaaaggc 540
agtcatgtga gtcagcccca ggcaaaacca gcaaaaaaaa aaaaaaaaaa 590

<210> 1286
<211> 965
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (193)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (643)
<223> n equals a,t,g, or c

<400> 1286
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gggaagaccc tgcaggactg aggtttgtcc tggctgacag gcctgccagg cttgttccgg 120
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gcacatgctt gtnggtgtgg ttgatgtrtc ttgcctgctg tggccatctc taccactgct 240
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tccttcttgg tgtagggctt aacgtgagcc ttgcatgcac ctngatccat atccagcatt 660
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cccagtccat cggcccttag tatatgcaga gggtagctcc aagtggggcc actgtgatat 780
gaaggaggat tgtttgaatt caggagattg aggctgcagc gagcagtggt gcagtcatag 840
ctcattgcag cctccaactc ttgggctcaa gtgatcctcc tatctcaacc tcttgctgag 900
tagctaggag tactggtgca tgccaccaca tccagctaat taaaaaaaaa aaaaaaaaac 960
tcgag 965

<210> 1287
<211> 1175
<212> DNA
<213> Homo sapiens

<400> 1287
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caaacacatg cacactggta acaaaggcag agatggagag gagacacaag atctccttgg 120
ggacaggctg accacatagt gtttctacag gcacgcctca cttcaggaaa gagggtatct 180
ctaagaccgg actgacaagc tagataaatt aggacagggc tttgtttctt aaggcacttc 240
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tgtgctaagt ggggttcatc agtacctgag gtggttctag aagcaggaag gcagaaaaca 360
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aggaagagtt tccggctggc tcaggagctc agggagctgg cttcctggga gagcaggaag 480
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gggtaccgat taaatagtgc agaagttccg acaggggcca gctgatacag gtgagcacgc 840
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<210> 1288
<211> 1340
<212> DNA
<213> Homo sapiens

<400> 1288
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aagttttcat aactgggcac gaggaggcag gaggagctgc ccgtcaagct tggtgtgggc 120
agtaccgagg cccaggctgg atgcagagcc gggaaccgcc tcctgtgtgc ttcatggcca 180
tggtcctttc tgcctgtgtt ttttcttttt ttctcaaccg tctcttttct ggctccctta 240
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ggacctggtg cacccgctgg tctactgccc cgagctgcac ttcagcgagt tcacctcagc 480
tgtggcggac atgaagaact cagtggcgga ccgagacaac agccccagct cctgtgctgg 540
cctcttcatc gcctcacaca tcggcttcga ctggcccgga gtctgggtcc acctggacat 600
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ctgcagggga cctgatttat agggcaagag aagtcacact ctggcctctc agaattcact 1260
tgaggttcaa ttaaatacag tcacaccgcc ccctcaaaaa aaaaaaaaaa aaaaaaaaaa 1320
aaaaaaaaaa aaaaaaaaaa 1340

<210> 1289
<211> 656
<212> DNA
<213> Homo sapiens

<400> 1289
ggcacgagct taattagaaa atgcttcatt gctttaaaaa aaaaaaaatg ctaatgatcg 60
tgctgggatt acaagcgtga ccactacacc cggcctgagt cacattgttc ttaatagcat 120
ctagaatggt gaatccttcc caggaggttt tcagtgtact ttgcccaaat ccatcagagg 180
aatggctgtc tatggcagct atagccttat aaagtgtatt tcttaaataa taaaactaga 240
aagtcaaaat tactccttga tttgcaagaa ttactgcctg gctgcaagaa tggatgttgt 300
gttagcaggc atgaacacaa cattcatctc cttatacatc ttcatcagag ctctgggtga 360
cttaggtgca ttgtcagtga gcagattttt gggtttttt gtttgtttgt ttgttttgag 420
acagtctccc tctgttgccc aggctggagc acagtggtgc aatctcagct caccacaacc 480
tctgcctccc aggttcaagc aattctcctg cctcagctac ttgggaagct gaggtgggag 540
gatcacttga gccgaggagg cagagattac agtgagccaa gatcatgcca ctgcactgta 600
gcctgggtga cagaaccaga ccctgtctca aaaaaaaaaa aaaaaaaaaa aaaaaa 656

<210> 1290
<211> 927
<212> DNA
<213> Homo sapiens

<400> 1290
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agtgggaaga cgtttcacgc tgaaggacca gtgtgtgcag aggtgaaggc aagagctgcg 120
gcagatgggc gaaatgggtg tcatgtgttt gatatcatct atgcagaaat cattagagtt 180
ggctgcagct gcttggtctt tttctgtaaa cagccatctt gctgtcctca gatgctggac 240
agtgttaggt ctgggaaggt gggcagaggc atgatgcttg ccctttttcat tgtgctactt 300
cttatccctc ccagacaaaa tgaaaatcaa atgccgtttc cagaaggcct atcggagggc 360
tttggaccat gaggaggagg ccctgtcatc gggcagtgtg caaggtatgg gaagggatga 420
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acttcttccc caggtaaggt aacagagaag ctgcgacttt gccttatccc ttcagctcgt 840
ggactcctgg gtcacctcct tcttgcatca ttgctaccca tttcttccat ttgctacaga 900
aaactctcca aaaaaaaaaa aaaaaaa 927

<210> 1291
<211> 1635
<212> DNA
<213> Homo sapiens

<400> 1291
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cagtcagtgg tgtggggacc tgtgcctgca tcccatgatg ctgtctgcca ctgcccaaaa 120
tgtatgggtc tacaagtcac acctcccttg tcattcactg ggctctggtt cgtggtgatg 180
gcaaacatgg gatggcagcg aaccatactg acaaaggttg aggcccttca gcatggtgtg 240
cagcctctca gcatggacag tgggccctga agccactgca gctcactgtt cctctcccac 300
cctacaggag gtagattggg aagtggagct ggccgtggtc attggaaaga aaggcaagca 360
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ctgcctctcc tagttctgac ctcactcacc aacacacggt gccagctgtc cctgacacta 480
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ccttggtgac caaggacagt gtagcaggta ggtccctggt ccctgccccc ttatacctac 840
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cccctgccag catccagtac acgaggcttc tctgtcccgg ctagaaccat tgcctcactg 1560
ctttatagat gctgagtctt ttttttgcct gggtgacaga gcaagattcc gtctcaaaaa 1620
aaaaaaaaaa aaaaa 1635

<210> 1292
<211> 1246
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1038)
<223> n equals a,t,g, or c

<400> 1292
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gggacgctgt tcctcccgcc gccactgccc aacctttcct gataatcgtg gcatgcgccc 180
tttcctcttc cctgccccac cccctggccg cagcaggcca gcactgcaga gtttgggtgc 240
tggtggtgtg gctgtagggg aggggagacc acacccaagg tgggggctgt ggccatgtgt 300
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aatatatcgc tctatataat attatatatg tgtgtggtat ccaaggaatc acttttatga 480
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gtcctttaaa atgtctgtgt attaaaaatt taagaatacc acactttaat attaaatatt 1140
cataaggtct agtatcttga taataatgta gatgttttaa taacaatttt tgtccttctt 1200
aaaataaaat gaaagaaact tgcaaaaaaa aaaaaaaaaa aaaaaa 1246

<210> 1293
<211> 358
<212> DNA
<213> Homo sapiens

<400> 1293
ggcacgagaa gaactgccct tttctctttg aaaaaaaatg aacactaaag gcagagattt 60
tcatttggct gtctttgtat tcccacaacc aagcatggta cgtggttcaa gaaatggctg 120
tttaatcaca gcagtaactc ccagtaggaa agattctcaa aggaattgtt ctttaaaaaa 180
aaaaaaaatt cacaaagtag gctgtaccct caaagtgcta aggagagctt ctgtcctcga 240
aaatctccct gaaatactga aagcatacaa aaaaggagaa agctcaaaac taaattttga 300
ctctcatggc tggggtttgt atctctttct ttaaaaaaaa aaaaaaaaaa aaaaaaaa 358

<210> 1294
<211> 779
<212> DNA
<213> Homo sapiens

<400> 1294
tgtagtccgg ggacagccag ccgacgtgtt cccaaggctg ttcaaggtaa gcgtgcagag 60
ccccagagaa gacagtgaga ttctgtccct gagggtttcc ccacarcctg agtgatatga 120
tattccgact gagggaatgg aaacatcagg gctggtctgg ctgttgctgc tagagaagtt 180
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tctgggaaac cagtgtcttg ttggaaagct ctcagctcag tccagacata ggatgtggta 300
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gatttattag ggttccttct aggccaagac tttgagggtg gggtttcatg tctagcaagg 420
tacatttccc atcttgcttt gctctgctta ttgggaaaag tcagcctttt ctgccgggcg 480
aggtggctca cgcctgtaat cccagcactt tgggaggccg aggcaggcag atcacgaggt 540
caggagatcc aggccatcct ggctaacatg gtgaaacccc gtctctacta aaaatacaaa 600
aaattagctg ggcatgttgg ctggcgcctg tagtcccagc tactcgagag gctgaggcag 660
gagaatggtg tgaacccggg aggcggagct ttcagtgagc cgagattgtg ccactgcact 720
ccagcctggg caacagagcg agactccgtc tcaaaaaaaa aaaaaaaaaa aaaaaaaaa 779

<210> 1295
<211> 446
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (12)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (26)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (441)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (446)
<223> n equals a,t,g, or c

<400> 1295
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ccttccaagt agctcagact ataagcacac gccccgttac tttgatgctc aaagtttccc 120

aggtgtggcc atgggaggcg tcagtggctt ctctgttgcg tagggccatt ggtttgggtt 180
gctcctgagt ttctgttgct agatactctg tgctcgtctt gtatgttctc aaccctggaa 240
gcagccattt ctccaaggag cccttgttcc ctttagtgga gggtggtctg gatcttggtt 300
agaagccaag atcaagattc tgggtgtgct cacagctcta ggttgttagc agacagagct 360
ggaaagtgtg tatgtgaata caagtgcaca gttgtgggtg cgtctgtgta tgtgcgaata 420
catgcgtctt tgtatatgat naaaan 446

<210> 1296
<211> 445
<212> DNA
<213> Homo sapiens

<400> 1296
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accagaatgg cttagtacag ctagggagct cagccagatc tcggtgtctg ctgtttgaga 180
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ctgcagtggt tctgcatttt agtggggaat ttgttttggt tcattttggc attcccgcaa 360
ccatcttgtt ggtttttgg taaaatgtgg caccccytcc agacctytta gctgtggaam 420
tgagrtattt tagcagggtc ccgtt 445

<210> 1297
<211> 1006
<212> DNA
<213> Homo sapiens

<400> 1297
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Patent Application Publication

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<212> DNA
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Application Number 09/726,576

<213> Homo sapiens

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<211> 845
<212> DNA
<213> Homo sapiens

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Patent Application Publication

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<213> Homo sapiens

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<223> n equals a,t,g, or c

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<211> 1573
<212> DNA
<213> Homo sapiens

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<210> 1320
<211> 1986
<212> DNA
<213> Homo sapiens

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<210> 1321
<211> 1993
<212> DNA
<213> Homo sapiens

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<210> 1322
<211> 1469
<212> DNA
<213> Homo sapiens

FEB 24 2005 09:39

<220>
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<222> (1419)
<223> n equals a,t,g, or c

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaa 1469

<210> 1323
<211> 1254
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (441)
<223> n equals a,t,g, or c

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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<210> 1326
<211> 1535
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (574)
<223> n equals a,t,g, or c

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<210> 1327
<211> 3051
<212> DNA
<213> Homo sapiens

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US 2003/0166569 A1

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<211> 1290
<212> DNA
<213> Homo sapiens

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<211> 1503
<212> DNA
<213> Homo sapiens

<220>
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<222> (1061)
<223> n equals a,t,g, or c

<400> 1329
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<210> 1330
<211> 2289
<212> DNA
<213> Homo sapiens

<400> 1330

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<210> 1331
<211> 2929
<212> DNA
<213> Homo sapiens

<400> 1331
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US 2003/0232350 A1

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<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<212> DNA
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<211> 368
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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ccctgcctgg cctcccctct catggcccag ccaccccaga acctgaagag gttttctagc 600
tgccgtgcat ttgccaggct gggttaccca ccctactttc cctgcctgcc ctccagtgct 660
gccaggccta gtgtgccagc cagcgctcag ccttcagtaa agggttcccc tgcttccaac 720
ctccattgca ctgcttcccc taagactgtg acctcctgga aggctggagc acaactgcct 780
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aaaaaagggc ggcc 854

<210> 1342
<211> 1274
<212> DNA
<213> Homo sapiens

<400> 1342
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ccttcagttt tatatttctc gacagtggct taataaattt aagacctttg ccgaacctgg 180
ccctatttca aataatgact ttctttgtat tcatggaggt aagaactcct gtaatgcaaa 240
ccggtagtag aagtttgctg taaaataatt tgcaaattag gagagccaag aattttcctc 300
tcccacttat ttcccatttc cccacctgca ttcaaactta atgtgtttta attccatatg 360
gtttcagaaa ttcacccttc ctttttaatt gtaggtaatc tctagcttct ttattgaaca 420
tatatttact gagtacatgc tttctaaact ttttgctagt gcctaaggac actaaaaatc 480
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cattacagtg agctcctcta ttatacatca tttttcctac ctgaggcatt cctgtgctgg 600
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gagtgtaaga ataatgattg agctgagtgc agtggctcac acctgtaatc tcattgtctc 1020
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aaaaaaaaaa aaaa 1274

<210> 1343
<211> 1820
<212> DNA
<213> Homo sapiens

<400> 1343
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attttaaaag tgctcttcat tcagatgaca actcagttaa aatatttttc aacaatgatg 180
aattattttg cattaattat tttttctgtt tggttattgg tttaacactc tggagatgag 240
caaagaaaaa atatttaagt ctgccctttcg gaaaaaccat tgtactctca gtgtcttcca 300
tcatttctta cctacaaatg ttgttttgtt taaggaaggg ttcttgacat ttgccgtgta 360
aggttataga ataaataaag agtttattta cctacggtag tggtgattta gtttatttt 420
aattcttact gtctattata ggtgtaactc attgatttta gttacaagtt tttaatttaa 480
agtttctatc cccaaaacta ttgccctcga aagtatcaaa ttactataaa atatgaaacc 540
ttaaatactt tgacacttat gtaaactagg gtaacatcat tttcattacg tatgggaaag 600
tacatatcta aatatatttt tgaccaaata tatttgtcaa atttttaggc cagtttattt 660
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atttttttgaa gccagtatta cactgatacc aaagccaagg gaaagtatca caagaaaact 1560
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attcagcagg ttattacaag gatttataca tcaagaccaa gtgggattta tcccaggaat 1680
gcaagattgc ttcaacatat gaaaatcaat atgatatacc atattagaag aatgaggaga 1740
cccacataat cagctcagta gatacaaaaa aaagttgcat ggaacccaaa atgctttgat 1800
gatttaaaaa aaaaaaaaaa 1820

<210> 1344
<211> 1984
<212> DNA
<213> Homo sapiens

<400> 1344
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cttggtactt aattctagtc cttctaaatc agtattcagg aactattgtg ggagtgtatt 180
agaaagtgca tgttcaaatg ctaatcacat atccagggag actccagttc tgtgttcatg 240
cctctcagcc atcaaatgac ttcgggaaat attaattccc ttctccaggt tcaaagtcac 300
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cttctatgta ggaaatattt ttctgtctcc cattgataat agtaaataca aaggaacatc 480
attagtttaa tattatgaaa cagcctgcag tttcaaagga atcatgtttt tgatttggtg 540
agacagggct ggattctcta cagcctatat tcatcattct gcatatcatg gttgttgatt 600
attgaggatt aggcctccta atcctacagc tgtgtcctag gtgcttggga catatcattg 660
aacataacaa aatccctgcc tcatggagct tgcatcctaa cagagggaaa tagtaaataa 720
taaatataat aaataacaaa aataaacaga gtctttgaaa gcagtaattc tttggaaaaa 780
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aagttgcaga attaaatatc agagcagtta ttattgaaaa aaaatcgagc taatatttaa 900
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cctaaaactt aaagtataat agtaaaaata ataaaaaaaa gatcaaaaaa aaaaaaaaaa 1980
aaaa 1984

<210> 1345
<211> 789
<212> DNA
<213> Homo sapiens

<220>
<221> SITE

<222> (15)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (47)
<223> n equals a,t,g, or c

<400> 1345
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gattacgcca agtctaatac gactcactat agggaaagct ggtacgcctg caggtaccgg 120
tccggaattc ccgggtcgac ccacgcgtcc gctcttatat taaaataata cctggccggg 180
agcagtggct cacacctgta atcctagcac ctttggaggc cagggtgggc agatcgcttg 240
aggtcaggag tttgagagca gcctggccaa catggcgaaa ccccgtctcc gcaaataata 300
caaaaaatga gccgagcgtg gtggcacacg cctgtattct cagcctcctg agtgcctggg 360
accacagtca tgccccacca cacctggcta atatttttg tttttgtaga gatgaggttt 420
cgctatgctg cgcgggctgc gtcgaactcc tggcctcaag caaacctcct acctcagcgt 480
cccgaaggct gggattatgg gtgcacgcca ctgcatctgg ccctttgta ggtatttttt 540
ccccctttct ctgattgtac ctattgattt ttctcccttt ctctgattgt acctattgat 600
tgtttagagt ctctgaaaaa tcacactctt attggctaag tcttcacccc ataaatcttt 660
cctaataaat gctcattcag actctcagaa ctttcagcat taaagagttt tctattcatg 720
ccctcaattc ctcccataag aactaaagtg atcttttgca aagtaaaaaa aaaaaaaaag 780
ggcggccgc 789

<210> 1346
<211> 354
<212> DNA
<213> Homo sapiens

<400> 1346
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gacaggcgtt agcaccgtgc ccggcctctg tttcctgtta ttagtgattt tcctgcccaa 120
gattgcaaca acaaatatgt agaactacag actgtttaga atgctgagac tgttctaaga 180
aactttcaaa aacagtagca cttcaaggaa tggtcacttt ctatgaaaga aactggtttg 240
atagccataa tcttattgct agctgctttt agcaaaagtc ttttcttgaa accaccacct 300
atactcttta aacaaataaa aactaaaatc tcttgctaaa aaaaaaaaaa aaaa 354

<210> 1347
<211> 1487
<212> DNA
<213> Homo sapiens

<400> 1347
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ataggaagcc ctttgctggt gctaaatttc catttgacag atggtgggcc tgaggcctag 120
aggcatcggg gttgcccaag gtcacacaaa gcctgacatt gagcatttgt tttttaattt 180
caaatctatt ttctcttaca ccccatctgc cttcatttct cttgctatga aaagacactg 240
atggtttggc atacagtctg ggcgtagtca acattttgtg ggagaaaagg aaggaattag 300
actaggagat ctgggatgca agtatatatt cggcccttga ttagcctttt gctttggggt 360
taaaagggag tggctggggg tgggtgaggt tttaactaga tttccaagaa cctctttcct 420
ccttgctttt gaagttgggg gtgggggtac tatattggtt tgtcagtcag ctactcatgc 480
caaacattag gtcattatca ctttcactaa attcactcat tcaacacttt ttggtctgca 540
aaattttgaa acgggaaaga gttaatgaat acccaggcaa ttttaacaca atgatgaaaa 600
aggctacaaa ggagtaaatc tccgtgttat gaaagtgtgc agaggagagg tcgaggaagg 660
gctctaggag ggaattatat ctcagctcag attggacccc aaaggaggag ttagttgggt 720
agaatggaag agagtaagga agggaggctc tctgggcaga gccactcctg ccctccagag 780
agatagcata gcccttgaag gaggaacttg aagacatctt gtttggctga agcctcaggt 840
aagtggggga tgtgacaaga ggtgaagttg ggtcattaga gggcagaaga gcttctaacc 900
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ttgccgttta caaagtactt tcacttatgt tattacttta tgtaaactac tcaataatca 1080

tataaggtag aaggagatag atatctcctt gttgtagaca aggaatctaa agttctgaga 1140
gggtagttga ctgattaatc aagtaagaag ctagaggggc caacacgtga gcctcgcact 1200
tcagttctgg actgtactct agctgcaaca acctcttcct ctcaaaacag gtgctggagt 1260
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acaataacta ttggccgggc gcggtggctc acacctgtaa tcccagcact ttgggaggcc 1380
gaggcgggcg gatccacgag gtcaggagat cgagaccatc ctggctaaca cggtgaaacc 1440
ccgtctctac taaaaaaaaa aaaaaaaaaa aaaaaaaggg cggccgc 1487

<210> 1348
<211> 820
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (779)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (798)
<223> n equals a,t,g, or c

<400> 1348
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tttggagaca agaagaagga atacaggaga tgtttccttg aatgagtctt cttcctaaac 180
tctgctagaa gtatgtcaga aagcgaaggt tacctcagtc tccaagtcat gaaaacatga 240
ggtctttctg ttttctaggg aaagtatttc atttcctagt gtggcttttt gcacacccca 300
gaaggaggaa gacaagcctt cgtgtcacct ttacatggta gttgagatgc ttcacatttg 360
tacataacat cttatatgat cgaaagagga actcaaactc gacaggggag aataaggaaa 420
tacatctaaa actgacaatt atgttaatcc ctcaattccc tgggccccca aaatagtctc 480
ctctatttgc catttcaaaa tagctaatga gagggtaatt ggacatgtag acactgaatt 540
tccactgctc atggtttcct tccctgggct cccagtcacc cggaaggccc cggattacct 600
caaatgtcat aatgggktca tcgcattacg aattacctcc ttctgccaat aaactacaag 660
ttctttgagg accaaaaaaa agwmraaaaa aaaaaaaagg gcgggccgcc ctaggaggat 720
ccaagcttaa ggtacccggt gccattggga cggccaatag ctccttccaa aagggggcnc 780
cctaaaattc aaattcanct gggccgttcg gttttacaaa 820

<210> 1349
<211> 751
<212> DNA
<213> Homo sapiens

<400> 1349
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ttttccttgc tctcttgcat gttccttttc aactcatggc ccacagtgac tctcagagat 120
ttatgccaaa attgcataca attgttttct gaatcataac ttgtctattt ttctgcctat 180
gtgtgctact ttcagtttgt ttctcatcaa cattttgact ctcagaagag cctccatttg 240
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gaagtcatat tatataatat gataaaaata ttctcatgca gtattttaaa taatttcaaa 420
ttctagaaga agcaaatttc agcgacatgt cattgagttt ttatttggta aagctataat 480
tgtgcagtgt acaaagcact ttttaaaaag atagtttatt ctgtcagggt atatgaagtt 540
agtatacagc cagaacagcc aagcctcaat tcttgtacct tgtgtctttt tattactgtt 600
taatcaatag atatcatatg tttatgacag tttcaagaat tgtttttaaa cccaaactta 660
attttawgtt tcagactatt gttagaaaaa caaaacaaga aaaaaaaaaa agggcggccg 720
ctctagaggt ccaagcttac gtacgcgtgc a 751

<210> 1350
<211> 1084

<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (864)
<223> n equals a,t,g, or c

<400> 1350
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gtgattatta tttttcaagc cccaaaggag aattcattag atgacatact tttaaagttc 180
attacaggtg tgagccactg cacctggccg tataattttc tttttatcag ggatgtaggc 240
tcaaatgaga ttgggtgcca aaacttcatt atttttcttt tcttttcttt tcttgctagt 300
ttttgctaaa cttctttttgt taaagaaagg cagttactgt tactgagata gctcgatggt 360
atcctgtgca ttttttttttg aaagctcaaa tagaagtctc acagttttag ggagggattt 420
tttttagtct acaaaaagtt attagtatgc ctgtcctctt agtactgtac tgcctagtta 480
ctctcctttc aaaaaaaaaa gcgtatattt attatatttc catggtaaac tagcagctac 540
aataatgtac gctttttttt ttagtctaca aaaagttatt agtatgcctg tcctcttagt 600
actgttccta aaaatgcttg tacattctaa aactgcaatt ttactgatag ttgggaaatg 660
aaagtgcaaa agaaattaat gacttgtgaa gttctggtat ttcattatgt caagacaaga 720
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caggaggctg aggtgggcgg attgcttgag cctagaaggt tgaggctgca gtgagccgag 1020
atctcaccac tgcagtctac cctgggtgac agaatgagac cctgtttcaa aaaaaaaaaa 1080
aaaa 1084

<210> 1351
<211> 1403
<212> DNA
<213> Homo sapiens

<400> 1351
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tgcttttaaa aataccgaac caaaactgtt ttaaccttgc cccttgaatt atagcagttt 120
atgagtcagc agcttatgct ataagggatt tgattattat ttacttcgag aaaactggct 180
tccttgaaat ctcctgatat gcatgtaaaa ctgtcatgtc atgtaaatca aaggtaatat 240
tcaaggtgtc caactaagtg taaggtccaa aataatgacc aaatgatata aagcaactta 300
gccttggaaa caatatgaag catagtacta atgtagaata gttgtattgg agttgacttt 360
atataaaaat gtcttacatc actctactta aattcatctt gtatttcttc tctctagtat 420
ctgagttcag aaaacttatt ccatttataa tgttctcttt atattggtta tgctattttg 480
atcttaccat tctttttaaa agtcttatta catatttatt tttccttttt tctttctatt 540
ctatcattat acccataaga gagtttgtta cacctgaaaa gtgaaacaaa ctaaattaaa 600
ataaaataaa agaataaata aagaacattg gtcaagtcta caaaagttaa aaatttaaaa 660
atcacatggc tttgcttata ttgaaataaa tgttttgtgt atggttaata caaacttctc 720
tatttcctgg catttattca atgagtaatg aatagcgtaa tgttactttt tacataaatg 780
ccatttctgt aaactcactg tctaaatatt tactactcta ggtaattgcc agatctttta 840
tatattaaag gtcatcaaga atgaattaat catttagcat tagtaataca actggaaggc 900
tcaagaagtt caagtatgtt aaaaatgctt tggaaagtct tctgaaaact attggactag 960
tcctatcata aatgggatat ttagatactg taccatttgc atgtgtgctt gtgtgtgtgt 1020
gaatgtgtgt attggtgtat acgtgtgtgt ttgtgtcttt ctgcaggcac atctcatttt 1080
aactgttaga gttgaatcag tcaaataatc acttttgtga taggctcact tttgtgaatg 1140
atctgagtat cagaatagaa acctatagat atggccaaat ggtaatattc atttatgatg 1200
atttttttaa aaacacatta attttattgt gacagaatgt tggttattaa tgtttgaaag 1260
atctagttgc atacacagac tcttggatca aaaataaaga gctctgggct cacttcttag 1320
atcagtctgt ggccaaaata aatgaattta attcctggca catcagtttg tcaaaattag 1380
gcgggaaaaa aaaaaaaaaa aaa 1403

<210> 1352

<211> 1566
<212> DNA
<213> Homo sapiens

<400> 1352
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cccacctcag catcccaaag tgttgggatt gcaggcatga gccactatgc ctggcctagt 120
aaaatatttt tatactaagt agagagagta gattcgtgga aaactcttaa actcaccagg 180
tactgcaatg aaacttctag cattggtgat tagcatacta atatgtactg ggcaaattta 240
taattgttag taatttgcaa tggagtcttt tcattctgat attcaaagta ttttacaaac 300
actaaacttt caaaatctct cttataatag gtattgttaa attaattcca tatttcatat 360
gaaaaaacaa aagctgaggg aggcaaagtt acttacctaa gaccacacag tatttaactg 420
atggaacctg agtagttcca aatttccgtt actcaactct aacccgcata taaaataaaa 480
tcagtgtaat gctaagaaat actattgtac ctccaagaat aaacttgaca ataaaaatat 540
tgtcatggca gtttaaagaa atgtctttat taaaatgagg attccaaggt aaaatcctct 600
aagtataaac atatttatat aagatattta tatttaagaa gatagtaatt tcattcaata 660
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aaaaaaagcc aaaattgtta tagactgtga ttcaaatact ctttcatata gccagggtga 780
taaactactt atttattgaa cttgactgtt taaatataaa aatgattgtc ctaatggaga 840
aagcccctaa aaagcaagta gctccttttg cataaaagac ttttacatta ttttggattt 900
tagtgaacag tgtttttttc tattgtaatt tctgattaga tatcacatta tttatgaatt 960
gtttgttatg gtaggagtat agtatctttt ggaagaattt atcttagtat atattaacca 1020
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tgtccctaca aaaatacaac aattagctga gtgtggtggc acgtgcctgt agtcgcagct 1440
acttgggagg ctgaggcaga agaatcactt gaacccagga ggcagaagtt gcagtgagcc 1500
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aaaaaa 1566

<210> 1353
<211> 668
<212> DNA
<213> Homo sapiens

<400> 1353
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gtctgctaat aagaagaaaa agagaagggc attctcttta cctttaagag gagtttgtgt 180
atatcacttt cactcagatc cctctggctc taactttgtc acgtcacaac cagttgcaaa 240
ggaggctggg aagtgagtga ctctgaccta ggcagccata tgttgcactt aatttttatt 300
actgcataag aaggagagaa cagattctgg ggagatagcc agctatctgt cacattaagg 360
tttgagtcag atttatttyc attaaaaaaa aaaaaatggc ctcaggcctg taatcccagc 420
aggytgaggc aggagaatgg cgggaacctg ggaggcatag cttgcagtga gccgagatgg 480
caccactgca ctccagcctg ggtgagagcg agactctctc tcaaaaaaaa aaaaaaaaaa 540
aaaaaagccg ttgattattt aaacagttaa ctttttttgtt gttgttctgg aatgagtctt 600
ggttactgta tagtatgtat taaaaataac cattagcaat ctaggcatag tggtatgtgc 660
acagtccc 668

<210> 1354
<211> 313
<212> DNA
<213> Homo sapiens

<400> 1354
gctgacaata ccaaatgctg ggaaagatac agagcaacag gaactctcat gtcagagttc 60
ctgttgctct gtatctttcc cagcatttgg tattgtcagt ttaaacacaa atgctgggaa 120
agatacagag caacaggaac tctgacatga gagtaggaat gcaaaatgag acagccactg 180

tggaagacag tttggcagtt tcttagaaag ttaaacacat ttactctatg gcccaggatc 240
tcattcctgg ggatttactc aagagcaatg aaaaccccac tcaaagatct ctacaatcca 300
aaaaaaaaaa aaa 313

<210> 1355
<211> 1082
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1065)
<223> n equals a,t,g, or c

<400> 1355
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cataaactga gcataccaca atccatattc tacggactgt cttctccttt ttccactgat 120
tacatgtgag tggttcttag ataacacacc ctaaagacaa agaaagaaag gaagagaaac 180
agaattaaca agagagggaa aagagtgtca gtttcctttg ctatgactat taaatgactc 240
agtgaatttt cttagggtaa agttactgcc attcaaaatt atagtaaatt ggtaatattt 300
tacagtcata tatttttkgt ttcagctgag tatatttkgt tycagcttaa gtatgggcac 360
atatctccca cacttttttа gatcagatat gacacataaa aaagatggct ttggtttttt 420
aaaaactctt acaattagca actaatggca gtgtgaacat ataattggtt ttataggtaa 480
atcaatttgt cgacttacaa acttttaaga cttcatttgt tattcataac tacattttgc 540
tgaggaaaaa aatacttgtt tatgtcaaaa aggggagaat ttccattaag ttcatactct 600
ccatgatgag aaagcacacc ccgaaataag acattaaatg ttagaatgta ttacttttcc 660
tggttagaaa agaacttggc tttgggagtg gaccctatgc gtatcatggt gtggcaatgc 720
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cagctgtggt tatcacatat ttattcaaaa gatattacag ctatcaaagc agtatgtcag 840
caaagtcctt agtagtttgc ttaaattgcc ctttcatttt actgtatctg taagtattca 900
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aacacgaagc attatttaca tggaagcatt cagaaatcat gaatagcatt atcacaaatg 1020
agttatgaca ttttataggt tcacaaaaac gagagaaaaa aaaanaaaaa gggcggcccg 1080
ct 1082

<210> 1356
<211> 1316
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (24)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (37)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (48)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (61)
<223> n equals a,t,g, or c

<220>

US 2004/0265836 A1

<221> SITE
<222> (121)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1305)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1308)
<223> n equals a,t,g, or c

<400> 1356
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naccccacgg cgtcccgcaa aacatcagtg cctttcaaat gctaaggaaa ctctgtcaaa 180
tgatctttct ttttttgttt tttgtttttt gttttttggt ctcacaatat gtctcaccat 240
tttatagtaa caccttcttt ggtgtccagt aaaatgaaaa cttgagagat ttctactgct 300
tcaacaattt ttttaattac gtggagattt taattttcta tgagctatct gaaagaagag 360
tagaaaataa atacaatctt gaaaaatccc atgaaaacca taggcaaata ttaaatgatt 420
gaggcttttc ttttttaaaa cgtggctatg ttctttttag atagcctgga ttcagggact 480
tgggaccttg taaagccaaa gctgattgac actcataagg atgtcttcct gtatgccatt 540
ctaatagaca cacatgttac ctgatagagc tgggcagagg tgcttcagtc tcaggctgaa 600
ggttctgaag tccagggaag ttgggtgctg cccagggtta caagccatga gtgggagagc 660
tcaagtataa gacacttagg ccagacttcg tttcacaagt ccaggctgct cctcaccaaa 720
attctgtgtg tatatatata ttttttcttt ttctgattct catgcatatt gtagataatt 780
tggaatatac agtaaactga aaattctata tccacatttc tgtgagcttt ttaaaatgtg 840
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agtttgaagt tacagtgggc cttgatcgca ccactgcact gcagcctggg cgacagagca 1080
agatcctgtc ttaaaaaaaa aaaaaaaaaa aaaaaaaaaa agggcggccg ctctagagga 1140
tccaagctta cgtacgcgtg catgcgacgt catagctctt ctatagtgtc acctaaattc 1200
aattcactgg ccgtcgtttt acaacgtcgt gactgggaaa accctggcgt tacccaactt 1260
aatcgccttg cacacatccc cctttcgcca gctggcgtaa tagcnaanaa ggcccg 1316

<210> 1357
<211> 722
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (665)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (719)
<223> n equals a,t,g, or c

<400> 1357
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gatgaaggct gccacgtatt agctgtgatt tcttaacttc tctaccttta atttcctcat 120
ctatgagatg atgttgaacc tgtctacatc ataagtagtt aaggatgaaa tgaatgggta 180
tatgaacatt gtgttgggga cgtagtagat actcagcaaa tgtgtcttcc cagtgatgtc 240
acatttcctc tacttctgct tggtatgtgt ctcgttcccc tgagcccagc tcatgtcact 300
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tgttagtctg atgctaaaga cttaagattt atttcttcat tgttgttgtt gttgtttttg 420

tagagatcag gggttcgaga ccagcctggc caacatggtg aaaccctgtc tctactaaaa 480
ctacaaaaat tggccaggcg tggtggtagg cgcctgtgat cctagctact tgggaggctg 540
aggcaggaga atggcttgaa cctgagaggt ggaggttgca gtgagctgag atgacgccac 600
tgtgctccag cctgggcgac agagcgagac cctgtctcaa agaaaaaaaa aaaaaaaagg 660
gcggncgcyc tagaggatcc aagcttacgt acgctgcatg cgamgtcawa gccctccana 720
ag 722

<210> 1358
<211> 858
<212> DNA
<213> Homo sapiens

<400> 1358
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accattttgc ttagggcagt ccctataatc ttagaggcaa cagtaagaga gtgaaatatt 120
gcaggcagtg aattgggcta atttgccatc actccgattt cttcaaaact ctcttaaaga 180
tgagttaatg ttgctggcct aaaatagtct catatatggg actcccttag aaatgatagt 240
gatagtgttt tatttaataa atctgctgtg atggtctaag gcaaacttga cttatggaat 300
tccagttagc actgttgatg ataataatta cagttggttt tgcatctgta cagcacttta 360
caattataaa tactctttat ggaagtagtt tccttgggat gatatatatc tggccattat 420
tctgttcaat aggtgtgcta tattatggca aatgttgcaa ttatcattgt acatattggt 480
atgtttattt gtatatagaa tcatactcat accacagagt ctaaagaagt agcagcagtg 540
tggtgtagtt agcaatcaag aacactggac cttaaataac tgggtccaaa tatcactttc 600
accatttatt cactgtgagt catgagaaaa ttgttttagt tttgctgtct gtacaatggc 660
atactactac ctgtctcata cacacacaca ggcacacaca aagttttact aattggttca 720
tactaggaac tctccaagta tcaattatcc ctgttacaga aacagtatgt atagagagac 780
aatcatggag attccctgtc caaggatttt cctgatagct tcctctggtc catatcaaaa 840
tgaaaaaaaa aaaaaaaa 858

<210> 1359
<211> 1206
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (38)
<223> n equals a,t,g, or c

<400> 1359
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agtggtagtc ccagctactc aggaggctga ggtgggagga tcactggaac ccgggagcag 120
agactgcagt gagctgagat cacactactg cattccagcc tgagcaacag agcaagacac 180
acacacacat caatttattt tagttgtata atgcttttct attagtaaag catcagctaa 240
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gaaccttttgt tggtgtgttg acattgacca tgcagaccaa tttgggcaca actggacatt 360
gattcctttt acacaagagc tgcctcccaa agatagataa attttcccag ccctaaatat 420
gaatcatggg gcaagatatt ggtcgtattg atggtgaacc tttcctactg gattctttgc 480
atgccacata gcaggattca ttgcctttct ctcatcatgg atggcatgca gcagcaccca 540
agtattcttc attctttgca gggaaaaaat tgtgcatggg ggctgaaatg tagtatgtgt 600
agctcaatta gtctctcctc tgtgatgcaa aatggaatat tcaatggcag atctgccctt 660
ctgagatgct gaccatccaa aacaccttgt ttatggtgca ccatgattag ctcacacaca 720
atgccaaggc tgtgcttcta ttatctgata catagtttga caatgggtaa ttctactcag 780
accctcccta ctgattggct aggatgcctg tcaggaactc attatgctac tggttgtttg 840
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ccccactgtt acggaagttt ataaaacctt agttccagaa gacccaaagg agagtactgg 960
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gacagggagg gagcccagga catatgtgtg gctcattgac cagaaggctt tcttagtccc 1080
aacagccatg aaccatgcac ttatggatac ccagcctttt agggctacgt gaaatgcatc 1140
cttgtaacat cattgtattc tttcaataaa tagccttctg agttgaawaa aaaaaaaaaa 1200
aaaaaa 1206

<210> 1360
<211> 2102
<212> DNA
<213> Homo sapiens

<400> 1360
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ccttgactaa agctaaatca ctaaaccttg gccatggtca cttcctcttt tccaatctct 120
gtggcagttt ttgccctaat aaccctgcag gttggtactc aggacagttt tatagctgca 180
gtgtatgaac atgctgtcat tttgccaaat aaaacagaaa caccagtttc tcaggaggat 240
gccttgaatc tcatgaacga gaatatagac attctggaga cagcgatcaa gcaggcagct 300
gagcagggtg ctcgaatcat tgtgactcca gaagatgcac tttatggatg gaaatttacc 360
agggaaactg ttttccctta tctggaggat atcccagacc ctcaggtgaa ctggattccg 420
tgtcaagacc cccacagatt tggtcacaca ccagtacaag caagactcag ctgcctggcc 480
aaggacaact ctatctatgt cttggcaaat ttgggggaca aaaagccatg taattcccgt 540
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gaaggaaaac tcgtggcacg ttaccataag taccacctgt actctgagcc tcagtttaat 660
gtccctgaaa agccggagtt ggtgactttc aacaccgcat ttggaaggtt tggcattttc 720
acgtgctttg atatattctt ctatgatcct ggtgttaccc tggtgaaaga tttccatgtg 780
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aa 2102

<210> 1361
<211> 1289
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1254)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1285)
<223> n equals a,t,g, or c

<400> 1361
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aggatggggc tgccagtgtc ctgggccccc cctgccctct gggttctagg gtgctgcgcc 180
ctgctcctct cgctgtgggc gctgtgcaca gcctgccgca ggccgaggac gctgtagccc 240
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cccacactgg ctggaggtgt ccagggacat caccggaccg caggcagccc ccctctgcct 480
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caggatgaaa aaaaaaaaaa aaaaaaaaaa agggcggccc tctagaggat ccangcttac 1260
gtacgcgtgc atgcgacgtc atagntctt 1289

<210> 1362
<211> 868
<212> DNA
<213> Homo sapiens

<400> 1362
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taggtaggca tttggtacct aatggataat ctttcatgat ggataaatct gccacatcag 180
tctctcttga ctttgaaaat taaaatctgg gcactttggg aatttctgct gtcttaattg 240
gctggcctgt cctgtgaaca gccgtcttct ctaaàtggta taataactgc atttcagcgc 300
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ttaatagtta agcagtgtgt tctaccacca atgcaaataa ctcaactgaa tgacaattgg 420
atcctgcttc actcagtttg cgcataaatg gttgaggaaa actacatcat aggtgacccc 480
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aaaatataga aacatacatt cttggccagg cacagtggcc catgcctgta attccaacac 600
tttgggaggc cgaggtgggc agatcacttg aggccaagag tttgagacta gcctgtccaa 660
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ggttacagtg agccgagatc gcaccactgc actccagcct gggtgacaga gccaccctgt 840
ctcaaaaaaa aaaaaaaagg gcggccgc 868

<210> 1363
<211> 2929
<212> DNA
<213> Homo sapiens

<400> 1363
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tgtcctacac caggcagccc ccaaatcccg gcccaggagc ccagcagccg gggccgccct 480
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tgcaagagga gagacaggag agggcctttc cctggccttt ctgtcttcgt tgatgttcac 720
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Patent Application Publication

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<210> 1372
<211> 1322
<212> DNA
<213> Homo sapiens

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<210> 1373
<211> 1111
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (115)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1095)
<223> n equals a,t,g, or c

<400> 1373
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aataaatatg ttctntgaag atcggactgg t 1111

<210> 1374
<211> 1514
<212> DNA
<213> Homo sapiens

<400> 1374
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<210> 1375
<211> 2799
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (2794)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2799)
<223> n equals a,t,g, or c

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaanggggn 2799

<210> 1376
<211> 990
<212> DNA
<213> Homo sapiens

<400> 1376
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<210> 1377
<211> 1316
<212> DNA
<213> Homo sapiens

<400> 1377
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<210> 1378
<211> 1146
<212> DNA
<213> Homo sapiens

<400> 1378
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gaagcccagt gagctgcttc tgacagaggt accaagagac tacaggggaa ctaatgggat 120
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<210> 1379
<211> 545
<212> DNA
<213> Homo sapiens

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<222> (46)
<223> n equals a,t,g, or c

<220>
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<222> (536)
<223> n equals a,t,g, or c

<220>
<221> SITE

<222> (544)
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<210> 1380
<211> 606
<212> DNA
<213> Homo sapiens

<400> 1380
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gatatatatt gatttaatta gccatgtccc tattgataaa cttttgggtt gttttcagtg 180
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ccggca 606

<210> 1381
<211> 1035
<212> DNA
<213> Homo sapiens

<400> 1381
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aaaaaaaaaa aaaaa 1035

<210> 1382
<211> 2414
<212> DNA

PCT/US2004/036369

<213> Homo sapiens

<400> 1382
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<210> 1383
<211> 582
<212> DNA
<213> Homo sapiens

<400> 1383
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gcttatttca catagaataa atgttttgaa gtttatgttg tgtgtatcaa tggtttgttt 180
cattttgttg ttgagtattc tactgtatga atataccaaa atttgtgtgt ctgttcaccg 240
attgattgac atttgggtta ttacaacttt aaagctacta taaataaacc tgctaaaaat 300
gtttacataa gagcttttgc attggtatag attgtcattt ctctggagtg aatatctaag 360
aggagaattt ctaggttata tgataagtat aaccatattg ttaagcattc tagttgatgt 420
gtagagaaag acaggatcga aagcaattaa aatgaaagaa tatttcaaaa gataaaagag 480
aatatagaat aacatggtta taaaagccag tggaagagtg attaagggat ggaaactgga 540
gtttcaatgt tagaacttca gaaattgaaa aaaaaaaaaa aa 582

PCT/US2005/036636

<210> 1384
<211> 1426
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (506)
<223> n equals a,t,g, or c

<400> 1384
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ttcacatgaa ataagcatta tctgtacttt atgaataaga aaactgaggc tcaaagacat 180
aaatgtctta atcaagtcac ccatctatta tcagaaagaa cggggatttg aaaatgcatc 240
ttcctagaga caaaacttgt ttccattatg ccacaggatt ttactatgta ccacggcttt 300
aaaaataata actcttagga ggacttattt ataaaagact cctggtattg caggaggaaa 360
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caagaccaga ttcattatcg tagacggtca tgtgccctgc catgacattt tggtcaggga 660
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aaattctgtc actgcctata gaaattccaa aaaaaaaaaa aaaaaa 1426

<210> 1385
<211> 712
<212> DNA
<213> Homo sapiens

<400> 1385
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aagaagttgg gttggcaaca ttgcttgggt gatttccttg ctaacattgt actgtaaggt 120
gtgagggcct ttgcattaga ctctgactgg gctctgtaaa cctgagcctc attcttagaa 180
cctcttgagc cccttgatgt tgcccagtca agtccatagt gactgtaggg gctgaacttc 240
aagggccact tttgcttata gccatcacct gagagcacct ccagaatcaa aatggccttg 300
ggaagtactt gccccagaga gagttttaaa aattattctg tcaatctgac tcaattcctt 360
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<210> 1386
<211> 1702
<212> DNA
<213> Homo sapiens

JC20.Rec'd PCT/PTO 30 SEP 2005

<400> 1386
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cgtttgtgtc gctgggcagg gttctgattc agctaaagca gcagcacacc cttctgtaca 180
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tcccattcta ctgcaacgtg gccaatgcct tcctcgtagc tcctcagatc tactggttct 360
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tcaaaaaaaa aaaaaaaaaa aa 1702

<210> 1387
<211> 1720
<212> DNA
<213> Homo sapiens

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gacctttttaa tgttactgtc ctctttctgt tctttctgtc accatcagac ttctcagctt 180
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<210> 1388
<211> 505
<212> DNA
<213> Homo sapiens

<400> 1388
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cttttctaac cattagtcta aattgacatt taggtaaatt tgcttttaag ttgaatactt 180
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ttttgccatg ttgctcgggc tggtc 505

<210> 1389
<211> 485
<212> DNA
<213> Homo sapiens

<400> 1389
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tttgtgctgt tccagtatat gcaatacact ttaatgtttt attcttgtac ataaaaatgt 180
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gtggtgtact ttaaagctgt caccatgtta tattttcttt taagacatta atttagtaat 360
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aaaaa 485

<210> 1390
<211> 2007
<212> DNA
<213> Homo sapiens

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US 2003/0236368 A1

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cgtcttttta aaaaaaaaaa aaaaaaa 2007

<210> 1391
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<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (867)
<223> n equals a,t,g, or c

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gttccatagc aggcactcag gggtgtcggc cacgaagatt attctttctc ttctctcttt 180
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<212> DNA
<213> Homo sapiens

<400> 1392

EP 2 324 850 A2

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<213> Homo sapiens

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<223> n equals a,t,g, or c

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<222> (1195)
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<212> DNA
<213> Homo sapiens

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<211> 2163
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<222> (2136)
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<211> 1312
<212> DNA
<213> Homo sapiens

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<210> 1397
<211> 1966
<212> DNA
<213> Homo sapiens

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<210> 1398
<211> 1726
<212> DNA
<213> Homo sapiens

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<211> 2006
<212> DNA
<213> Homo sapiens

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PCT/US2003/033454

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<211> 1621
<212> DNA
<213> Homo sapiens

Page 1 of 1

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<213> Homo sapiens

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<223> n equals a,t,g, or c

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<212> DNA
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<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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10/2006 Seq Listing

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cagctaaatt ctaccaagca tttaaagaat taaaaccaat tctcacaaac tctttcaaaa 1260
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<210> 1415
<211> 643
<212> DNA
<213> Homo sapiens

<400> 1415
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aggacgctct ccatgttgtc tgaggccctt gtgatcccat ctcttggctt cttcgtctcc 180
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tggaatattt ccaccattat gtaaaaaaaa aaaaaaaaaa aaa 643

<210> 1416
<211> 1323
<212> DNA
<213> Homo sapiens

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gag 1323

<210> 1417
<211> 2083
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1781)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2057)
<223> n equals a,t,g, or c

<400> 1417
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gctaagtgca ctggtcattg gttgttcttt cagtgccctt cagacagccc ttgccctggt 180
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aatggtcctg gatttcaaat agctattcct ggagacattc taattctgtg gtttaaacct 300
taaaacaaac aaaccaaagt aattccctgg atattggtgg ctactggtgt gaagagcatg 360
gtgcggcgcc tgttacttgg atgagctttg atcaaagaat ggcatcaaat gataacagac 420
attggaggta taagtgatta caaggagaat catagatcta aataaaaatg gaatggtggt 480
taatacttta attgatcgag atgatacagc aatattttta ttcatatatc agtacaatat 540
ttaactttta aaggaagtga tattcatctt agcagaggtc tcttagcacc atatttgcaa 600
cattggatgt tatccattga gccttgtttt ggggaggaaa aaagacacca actttcttga 660
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cttggtagga gctaatgcag ctagtgacac taaattgaag ttagtgctca ttttcccttc 1920
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ggaactacaa aggctagata acagcacatc tgctgacagc atgatttact gactatttta 2040
agcccactat taagacntac tgcttagagg caaaaaaaaa aaa 2083

<210> 1418
<211> 917
<212> DNA
<213> Homo sapiens

<400> 1418
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accattttca tgtattactt catttttctg tttttcagtt atgttctctg ttttcgtata 180
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tggagggttc tttcctcaca tccttgaaag ccaccagtct tattcttcag cctggctctt 480
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ggcgattcca cacttacatc taaaatttcc tgatttttta agaatgacaa taaccaattt 900
aaaaaaaaaa aaaaaaa 917

<210> 1419
<211> 1014
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (820)
<223> n equals a,t,g, or c

<400> 1419
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ttaacatcct attattttcc tatatatagc tagtgtttat gaaagtttct ctactcctta 120
tttttaaatc catataaata aagcatttat tggatttata ctgaggttga attaaagaag 180
tgtaagttta tttttagcat cgtgagaagt gtctcactta aggtagtttt taatctggtt 240
gtgtttgcaa tgaaacaata ttagacagtt ttataattga tttctttctt tttcctacca 300
tttcatcagc aagtcccttc agctctttca aaataaaccc tgaatctgat cattgtggtc 360
tgaatcacta ttatattttg ccagaactgc tacaatagcc tccaaattct tttttcctct 420
tttcttacac tcaattaatg aaaatttttac cttacccaag taaaatcagc tatgcccagt 480
gatcttttaa agacmaatca gattaacatt cacctgctga aaacccttca gtgaatttct 540
gtctcttcta gaataawwtc taaagtcttt attgtggcct ccaatgctct atctagtctg 600
gcccatatct atctctaact gtatctttga tcaatctcta tcttaatcat tgtgttccag 660
gcacactaac catctcgcta ttccttgaat agcatatttc tgtctggaat ggtcaactaa 720
cagcaaagag gacagtgtgg ttggatagga atgagagagg gaggaagagg gtgatgaggt 780
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cttgccattt aaaaggatca ttctggctgt tgcattaaga atgactatag aggctgggag 960
tggtggctca cacctgtagt cccagcactt tgggaggcca aggcgggcag atca 1014

<210> 1420
<211> 1720
<212> DNA
<213> Homo sapiens

PCT/US2003/036426

<400> 1420
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ggatttctca agctattgaa gaaaatctag aaccgtggcc tcaagcttgg gacgattctt 180
taattgatag cagtccactt ctccacaatc cgagtgcttc catcaataat gactactttg 240
aagaccttaa aaagtactgt ttccacagga gcgtgaacag ggagacaaag gtgaagtttg 300
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ttttgtaagt gaagattttt aaactgacta acttaaaaaa atagattgta attgatgtgc 1680
cttaatttgc ataaatcata aatgtaaaaa aaaaaaaaaa 1720

<210> 1421
<211> 1730
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (455)
<223> n equals a,t,g, or c

<400> 1421
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ccagctactt gggagactga ggtaggaggg tcacgtgggc ccaggagatt gagacttcag 1620
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aaaaaaaaaa aagggcggcc gctcttaaaa gatccaagct ttacgtttcc 1730

<210> 1422
<211> 2018
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (672)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1609)
<223> n equals a,t,g, or c

<400> 1422
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cgggcatgtg gcgggtgagg agcccccaaa taactcttga actggaaaat aactctttag 120
ctatatactg gcagaatatt tgaacaactc tagcaagaaa tgtcagttta gggatgcctc 180
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gaacagaata actgttgaag aagcacctca tgaacctccc cagagaaacg ggatggagga 660
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ctgaactcaa ggagtcaccc tccgtgggga ggccacactc acagctccag gcctgccatt 900
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aaaaaaaatt agaaaagcat taccatttac tttccaaggg gcaagagatt ctctacaata 1200
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aatgcatctg cccagctgat ggtatcagac gtgctgctgt tcatttcttt ttcatggtaa 1920
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gggcggcc 2018

<210> 1423
<211> 1020
<212> DNA
<213> Homo sapiens

<400> 1423
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attgggtgga aatggccatt gaacatcata ctctactaac aaagaccatt tgagagttag 180
attaatctct ttcccgtttc aacaacagga agaagcccca caaatcaagt atttcccttg 240
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agtgagaccc atctctacaa aaaaaaaaag atagccaggc atgatggcat ccatctgtag 480
tcccagctac ttgggaggct gaggcaggag gatcacttga gcccgagggt ttcaggctgc 540
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aaaaaccaaa aattgttata gaatatagag ttgaataact tttctggaat gagaaagctc 660
tcattttaga tatccattca ttcattcatt caatagtgtg ctggatgcca rgaatttaat 720
ggtgargaaa atagacatga tctctgcctt ctgargctca aratcctccc tctattttta 780
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tcccctccca attttcttgt gctcctttgg agtcaacaac tctcccccaa ccccatggcc 960
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<210> 1424
<211> 957
<212> DNA
<213> Homo sapiens

<400> 1424
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tggcttggag atggccctgg ttggtcttct gagtgcaggt gtccctggtg tctctttgtg 180
tgtccagatt ttctcttata aggacactgg tgagattgga tgaggggccc cctgacggcc 240
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aaacatgccc cctctggctc gctctcccag ggcatccatc gtagcactta gaaaaatgat 420
cacttctttt ttggctttgt ggtggcgtgt gtgtgtgtgt atttgtatat acacacatat 480
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cctggctcat aactcccaca gcccttgtta cactcttttg ttacaacatt gggtgtgtca 600
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tctaatcttc cctacctttc tgatggtggg tcataaaact cattccagag acggtcccac 720
cccatatcct gctagaagga atgctgctgt catgaagctt ccataaaaac caaggggact 780
ggattcagag agcttccaga taactgaaca tacagaggtt ctagaagggt ggtgcgccca 840
gggagggcac aggaagctcc atgcccttcc ttcatacctc accctatgca tctctttatc 900
tgtatctttt ataatatcct ttataataaa ccagtaaatg taaaaaaaaa aaaaaaa 957

<210> 1425
<211> 1034
<212> DNA
<213> Homo sapiens

<400> 1425
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cattttctaa agtgggtttc tcccacagca gttgttaaaa caaggatttg gatacaaaga 180
gattatttaa gaggtgatcc tagacagcag gagagggatt gaggaggtga gatggagaag 240
gtgaatacta gtaaaagact acattgatat gctgtaggca cttgaggttt ctgtttgttt 300
gtttgtttgt ttttttggaa accttcgaga gacttatgga aaacactgta taattgtttc 360

attgaggagc acggaactga tcatgtttat tcaccaactc tcatgccttt ttggttgaag 420
gatgctccta ggggcattca cacctgctct gaactccttc ttcatctcca gcctgcctcc 480
cttatgggcc atttcatgcc actgtaccta gataaagcct tagggccaag agattcaggt 540
gcttgaggct gggtctatcc ttctgagctg caaataactt ccagggtgga tcaagggaat 600
gtggggtcag gatagattat attgcctctc atttacaacc aaccatatta gctcatatta 660
gtgttttatc tggaatagga ggagaagcat ttgagactgt tagaaaaaag gttctgctat 720
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cctcaattac taacttgtat cgtgttccat attatttcta gcacagcatg gattctctaa 840
cattcttgca gtctgggccc tgcaaggtag ctgtaaaaat gctgccctgg gactttctca 900
gtggagacat aagaagactc aagcattcca gaaagtgttt gtttggttgg cttttattga 960
tgtatataaa aagattagag acagcaagag aagaaaatca gagagaacct atacttggtt 1020
aaaaaaaaaa aaaa 1034

<210> 1426
<211> 1150
<212> DNA
<213> Homo sapiens

<400> 1426
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gagtgtactt agaaacatga aaacttcttt gaaagggagc tgatcacttt tggaaaagat 180
ttacagttct taggaatgca aatatttgtt tcttttcctt ttcatctaaa acatttacca 240
gataaagttg agtccagaga caactaacta ataagagaat aattttaata tgtttttcca 300
ttttggtgtc aacattgcat ggatttttt tcttgttcca agactggctt tttccagtgg 360
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aattgcagta gacgttcctg gttcttgcaa accagaggac attcttgaag ctgtgtggtc 480
ccaggctctc ccctctctgg tttcctgtgt tccctccctg cagcctcaga ctcgccctcc 540
agggctccac tgtgcttttc caaactctca tcctttcctc ccaggcgtcc tgtgcagcac 600
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gtcagaaatt gaacaaccca attagctggt atttcatttg taccaaccta tgaatggagg 720
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ggaaaagaaa aagaatcaat gaaaacatca ccctaaacca gctagtgctt tctgtttaca 1020
gggatcagac cccttcccac ttaaaaaaaa aaaaaacaaa aaaaaaaaaa aaaaaaaaaa 1080
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1140
aaaaaaaaaa 1150

<210> 1427
<211> 1761
<212> DNA
<213> Homo sapiens

<400> 1427
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cagtagtggt ggtagctaga tcagccttgg agagagagag cccatcattt caggccatca 180
cgactaatcc attcatttat gggccctttg taaggattga gatggctgag gacaggggct 240
gacaggcatt cattagacca gtcatcctgt ccatatgctt attcagtgct tcttctgcca 300
cacgtgctct ctggtgggct ctagtgtgag acacaaagat caacacatta tgtgcccatt 360
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gttcccttga ggcccttgac caagcaacca agccattctc caccacctag aagtctgtgt 480
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tggcacccag agttattttg ggtgtgtctt tagtgcagca ccagtccatc tttttagctc 600
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gggtcctcag tagaagttgt tagttgagct catttggggt tccatttgta agaccatctg 1680
tagcttgatg gcctcaattc tagaggaaac aaatttgaca aggagattaa aaatacaggg 1740
tccaaaggca aaaaaaaaaa a 1761

<210> 1428
<211> 616
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (610)
<223> n equals a,t,g, or c

<400> 1428
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aggctgaggc acaagaatcg cttgagcccg ggaggtgcag gttgcagtga gccaagatca 120
caccactgca ctccagcctg ggcagcagag tgagaccgtg tcccaaaaaa gagaaggaga 180
aacagagatc atgtggaaaa agttattttt tatttattta cttagttttc agtttggttt 240
gagactcgtg ttttaaacca gagggcatgg ttactgaggg ataacatcaa tagaactcct 300
ataattgagg ggataattat caaggtatta gatgattcac tggctattac aaagaacaca 360
gaaattatga aacctggttc tgtaacttat agtttttcat attattttta taccatggat 420
aactcttcta tgtgtattca taggtgtaag attactggca gtgtcatatg aaacaacata 480
ttacattttt taagcctgga aagcatctag tatggctgtg cacgtagtga tgacattgac 540
ttttttttact taaagaagag ctaccacttc aaataagaaa aaaaaaaaaa aaaaaaaaaa 600
aaaaaaaaan aaaaaa 616

<210> 1429
<211> 573
<212> DNA
<213> Homo sapiens

<400> 1429
gctccaaact gttttccata gtggttgtac tgatttagat ttccaccaag agatatgtat 60
gagagttccc ttttctccac attcttgcca gcatttgtta ttgcctgtct tttggataaa 120
agccatttga actagggtga gatgacatct tattgtagtt ttgatttgca tttctctgat 180
gataattatg ttgagcactg atatggtttg gatctgtgtc cccaccaaat ctcatgttga 240
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agtttcatac tgtcctcttg gtgctgttct tgtgatagtg agttctcatg agatttggtt 360
atttaaaagc gtacagcacc tccccgctca ctctctcttg ctcctgcttc cgccgtctaa 420
gatgccttac tccctctttg ctttctgcca tgattggcag tttcttgagg cctctccaga 480
agcagaagct gctgtgcttc ctgtacagcc tacaaaactg taagccaatt aaaactcttt 540
tctttataaa aaaaaaaaaa aaagggcggc cgc 573

<210> 1430
<211> 1384
<212> DNA
<213> Homo sapiens

<400> 1430
cccacgcgtc cggaggaatt gctatttaag tggaaagtgc ttgaacagcc aaatgagcac 60
ctgtcatgtt tattttcact ttgaaaagta gaaacatgac agtatagttt ccactgccta 120
tccaatatga acttctggca ttcttgttat cttctcagga actgcactgt ttgcttcttg 180
tgttcaattt ttttttttt tccagggatg aggatgtatc tctcctcctg aaactttcac 240
tctaaaatat gcccccaaat actgacattt tcaagcttgt gctttttac ttgatatctg 300
attttttta aatttttatt taatagggag aaggtcatga cttatggaat ttactctaag 360
gatagggatc tgagcaggtt cctgagtact tgaaaggctt tatttacctc ttacactttt 420
ttgttacatc caggtttttg ctcatttctc tatcatttgt gtcttgaact ttacctgaaa 480
tgcatgtctt gagtgcctac taaggtccag gcattgtgct ggcagatttg atatattttt 540
gtttattcct tattacagga ctattacata gtagactctc attctgacac tcacttttt 600
tttccagaaa aaaaaattaa tggagattga ttgctaatgg gtacagggct gcttttaagg 660
ctatgaaaat gctctaaaat tagtttgtgg tgatggttgc acatctctga acgtactaaa 720
atacattgaa ttatatactt tctttttct tcgttttgca gcttttgctc aaaggagaat 780
tagatattta aaatgagtga attgtatggt acatgaatta gatctcaata aaactatttt 840
aaaaaaagaa actaaagctt agagaagtat aatatcttgt tcaatatgac actacctggt 900
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tgggtgcggt ggctcacgcc tgtaatccca gcactttggg aggccaaggc ggacggatct 1080
cttgaggtca ggagtttgag accagcctgg ccaacatggt gataccccac ctctactaaa 1140
aaaaaaaaaa aaaaaaaaaa aattagccag gtgtggtggc gtgcacctgt aatcccagct 1200
actcgggagg ctgaggcatg ataatcactt gaacctggga ggcagaggtt gcagcgagtc 1260
aagattgcac cactgcactc cagcctgggc aacagagtga gactccgtct caaaaaaaaa 1320
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1380
aaaa 1384

<210> 1431
<211> 706
<212> DNA
<213> Homo sapiens

<400> 1431
gcccacgcgt ccgtgcagag agactgggtg ctccgagctc cactcaggtg aaagaatttg 60
cggcaattgt tgacgtgaaa gaagaatctc attacatctt ggatccaaag caagcactga 120
tgaagctcac cctaggtact gcaggcagtt tatttcccca agcattgtac attttgcttg 180
acttcatatg ggtaaatttt attgatggct ctcattacat ttagttgtgg ggtgatgtca 240
ccttcgtagc tcattttaag tctttagacc accatcagtc ataattttca aagaagctaa 300
ttttgtctat taaatggaac agaaacttcc tcactctgaa ttttggataa gtttgtcatt 360
tagcccatgg tgggggtaag agtcccactt tctaaattgg tgatttctgt cacatgtcta 420
aggtagaacc agctgcaggc agtggggact tggggactag aacaggcagg gaggtggaga 480
gctattctgg tgggatgtcc taggggctga tgaaagtgag ccttgacagc agctttgttc 540
taaaggagct taaagagaaa gcagtggccg ggcgcagtgg ctcacgcctg taatcccagc 600
actttgggag gccgaggcgg gtggatcacg aggtcaggag atcgagacta tcctggctaa 660
tgtggtgaaa ccccgtctct actaaaaata caaaaaaaaa aaaaaa 706

<210> 1432
<211> 419
<212> DNA
<213> Homo sapiens

<400> 1432
ccacgcgtcc ggaagaggag gtttgtgttg ccttcagatg actgttgatt taattgacag 60
gcagcttttc ttcattgtgt gctttttgct tttgctcaca aaagtgcatt cactattcta 120
tagtatgttg aaacttttaa atggaaacgg cttttcatta acaaaggaag cattttcttc 180
ccccttcca tgccttagct ttctccgcta agtcttggct tcttcagcag ctgtacctcc 240
accagaaatg acaaaaggtg caattgtgct aggagatggc gatgaagata tgccagtgga 300
gttttgtgtg tgggctgctg gggactgttt tccttctgtg tttggttttg ttttatttt 360
gttattccag aaagttgaga gcacatctaa aaaccaaaaa aaaaaaaaaa aaaaaaaaa 419

<210> 1433
<211> 1025

<212> DNA
<213> Homo sapiens

<400> 1433
gccaagcttc aaacatagat ctcctgactc cattcatatg accctataaa ctgtctcaaa 60
acaaaaagat aaattaatat aaatatttat tgaatatgtc tttgtagaga aagcataata 120
agcataaagg gcaatgcgtt aacctttatc acaagcaacc ctattggaat gtgtcaactt 180
atcagaatga atcaggccag aatatcaagt ataaatgaag cctgtagtta actgaaagtt 240
gcatatcaat caggcactcc agtttctctc ctcaaactct gaatattcaa tgaataagat 300
aaagaaatgg ctaatttgat tttacctttc atttttttga cctaattcta aggtgactac 360
tcactcctca agatttaact aatgttgctt tatttttatc cctctgggga gacagaagag 420
atgattggga aacacatgtt tgaagtttgt aagttctgct gctttcaacc ccacagatgt 480
ctcttactgc ccacttggss cctkgtgatt aagcaactag atttggagcc agtcaggctt 540
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ccargatttt ttgcttggga ggagacagat tagactggat tcggagtctt gattttgcaa 720
aggtaacaaa agacatgttt ttttataaga cttttcatca taagtttatt ttattcaaca 780
gaagcaaaat ctaatataat ggaaaaaata aagatctgtg ataaatctga tctgtgtkga 840
taaacacaat tagaaagatt taaagattaa gtattgaaac aaactaccaa aatattttaa 900
tactgatttg taaaaatttc agtacatttt tcttctttgc ttaattctac tgggtcctgt 960
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gccgc 1025

<210> 1434
<211> 1390
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1301)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1308)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1327)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1347)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1355)
<223> n equals a,t,g, or c

<400> 1434
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ttatgctcat ttgggctacc acatttgtaa gatctagcat tgcttgctct ctgtctgctc 120
ttttttcccc aaggaatacc tttctgtaac tctcatctct ccaaagtcct ggaaatctac 180
ctcgatgaag gatgaagaga aagaagacgg gaatcacatc aggcatttag aacatagccc 240
ataattaacc actcattttg cccttctggc atgctgcact cacccaattt gtcacaaaga 300
gagcagtacg ggttggtgat ggcactggtg atttaaatga aaaatggctc tttcttactt 360
attctaagaa gccaagttga ttttttttta tatatgttac cttccagacc ctgcagatgg 420

agaaggccca gagacattaa gctcagcact ctctaaagga gcaacagttt acagcccttc 480
cagatacagc taccaggtga gatgagaaat tgctggtctc tagccatagg agtgtgttct 540
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cggactatca gtctgccagt gctgggcagt agctgttaca ngcctcangg tatctgcggt 1320
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agtagactaa 1390

<210> 1435
<211> 783
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (14)
<223> n equals a,t,g, or c

<400> 1435
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tagaggacag gactctgcag gtcaaggaca gaggtgcatc ctgagggcgc actgcagtca 540
gggccaagtg gctcactctt tgcagcttta gcagcacctt ggatatagtt gctgctccgt 600
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tacaaaaaaa gctctgggat gggatttaat ttttttttt tttaactgtt gttatcagcc 720
tggccaacac ggtgaaatcc catctctact aaaaatacaa aaaaaaaaaa aaagggcggc 780
cgc 783

<210> 1436
<211> 909
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (909)
<223> n equals a,t,g, or c

<400> 1436
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aaatatggga ctcattgtcc tgtttatgga gctttttttc ttttggttga ctattctttt 120
gtttcctaca gtcttcaaca actgttagtg cttacaatgg atacatcatg catcttaatt 180
gataggatgg atatgataat acctttttg gtccaaggtc ccgctcatta aaaaaaatag 240
tttataaagc tgaaaagttt ttatttctat tttttgtaaa atgattttca tgataggatt 300
ttatataaag gggaagggtt ttttgtatca tttttataac atttttgaaa tgagtactta 360

ttctctttca tcatctattt tagactcaca gttttatgag taatgcagta aaggtcatgt 420
ggcacattag taaaatatgt tctgaacaca gaaactattc tccttatcac aaattaaatt 480
ttatgttaag tttgaagagc actggcctgg ggtatacttt gctgtgaaaa gatcattttg 540
gtcacttaaa ttacaataga aatatttgtg ttaagaaaat taagtaaaaa ttaggctggg 600
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<210> 1438
<211> 712
<212> DNA
<213> Homo sapiens

Page 838 of 1369

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<211> 337
<212> DNA
<213> Homo sapiens

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<210> 1449
<211> 1013
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (13)

<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (41)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (150)
<223> n equals a,t,g, or c

<400> 1449
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gactaaatga gtatctcagt ccataatcan agggagaaga accaccacag accacatacc 180
tggggtcttg aaaataattc catgcatgtg ggactttcag aagctgtccc atgtctgtcc 240
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atttgatggg ggatgggaga tgaagtggtt cttcgttttc tagatacttt attctataag 480
ttggatcacc tcaagcaaat gcgtgagtgc agctagccaa gttctctatc tcacagtctt 540
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gttattttga atttgaataa aataggraaa ggcagagtgc attgtgtgac catggggtaa 660
gtaagacact ctccctttct ccttctcagt tttcctgtca taaaaggacm aactactatc 720
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<210> 1450
<211> 1265
<212> DNA
<213> Homo sapiens

<400> 1450
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tgggcatcca ggggtcctgg gtgaagttga tctgcccgga cctctgtgac ctctttgccc 180
accatcccca gcctcacacg ccaaggatta cacagtggag aatctcatcc gcatgggcat 240
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cagaggggggg tgagatttca ggccacacac tgtggaaggt aatcatgtct gatcacaaat 480
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ctcga 1265

<210> 1451

<211> 2122
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (845)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (848)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1100)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1745)
<223> n equals a,t,g, or c

<400> 1451
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agaaggtcag ataaagaaga gggcggactt gctaaccaag ctgttagaag aaataatggg 120
agagaacatt ccttcatttc aggaggacac agagcaggct aggtctgccg cgaagactcc 180
tatagagaga agagtattct taaactagat tctgatggac gcaacaccag ttgcataatg 240
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gtttcaccat gttggccagg ctggtcttaa actcctgact tcaggtgatc caccctcctc 780
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<210> 1452
<211> 643
<212> DNA
<213> Homo sapiens

<400> 1452
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tttcatttct tgtaaatatt tgcaccagga agccaaaggg gggaaaaatc atgctatctg 180
tactagaaaa tttaacctgt attactgtta tctaatatgc tttagtggtc ttcagactat 240
tcactaatta agcatgttct ttaataccac caaataatat tcattgttat gcacaacaac 300
tgcaaagaga ttgagtccca agatctacaa aggattgtga gagttggtgg ttgagatttg 360
tcacaatcag aatgggactc aactggtacc cacagtctta catttactca aatttaatcc 420
agttcaaaat tttactactg catgctttta ttcaaatgaa ccacaaatgc atgatttaaa 480
gactgctggg attacaggtg tgagccaccg cacctgacct taaaccagcc cttttggtta 540
gcatcattga ctaatactga cccaaacagc tctaattctc agccctactc caaaaaaaaa 600
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaactc gag 643

<210> 1453
<211> 608
<212> DNA
<213> Homo sapiens

<400> 1453
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tgggcagttg gttaaaaagt cgtttttccc ctcactgatt tgggtcgcag ggactgggcc 360
tgttcctgtg tcttctggtg cttatcccac cctgttttca ttacagtaag tttcccctga 420
gctcataaag ctggtcctct ttcactttct tttcatggtt tttttggctg ttacttgctt 480
gttaattttt ccatatgagc atggtagttc cagaactgtg gtttttactg ggatcgtatt 540
aaatttacaa attgtatcgg aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 600
aactcgag 608

<210> 1454
<211> 1277
<212> DNA
<213> Homo sapiens

<400> 1454
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gggcgaggtt ttccagaatc actttgaacc tggcgtttac gtgtgtgcca agtgtggcta 120
tgagctgttc tccagccgct cgaagtatgc acactcgtct ccatggccgg cgttcaccga 180
gaccattcac gccgacagcg tggccaagcg tccggagcac aatagatctg aaggcttgaa 240
ggtgtcctgt ggcaagtgtg gcaatgggtt gggccacgag ttcctgaacg acggccccaa 300
gccggggcag tcccgattct gaatattcag cagctcgctg aagtttgtcc ctaaaggcaa 360
agaaacttct gcctcccagg gtcactaggc gggcagccca cacccacccc agacggccac 420
cacactgagg ccacacgttg gccattccac cttggagttg gaaccctggg cgtcgagaca 480
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gacctttcg tttcttggaa aagagactca tttgctgatg gttcatgcct tctgctggga 600
caggcctggg ctgtgcagcc acactgtcgg ctgacttagc cccctgctca ctctaggtgc 660
ctccaggagg tgagccctgg gtgcagctgg tctctgaatg acgttacacc ctcaccttct 720
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ccccatctta agtaattact ttctggagta atcaggtgga aatccataga caaatgaaaa 1260
aaaaaaaaaa aaaaaaa 1277

<210> 1455
<211> 1982
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (666)
<223> n equals a,t,g, or c

<400> 1455
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gaacttcagt tttctcttct gtgaaatgaa agccttggac taggcagcgt ctaaaggctc 180
tgtcactccg taattgtgtg actttggtaa ctttgtttga cttctccttg cttaagtttt 240
ctcatatggg tatggtaagg aaaataccta cctcacagga ttttctaaca attttgtgat 300
tattaagtat gatgactgat gactaatata tgacagccag ctcttacaca gtgctttcta 360
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tgaaaaatag aggtcacacg gctaatacgt gtcagagttt ggattaaaac ccagaaaaat 480
ctgtccccag agacaatgat tttaactagc atgccctttt gctcaataaa tgttaattcc 540
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acagtccatc caacaagatc ttaaaaaaac catgaaaatc tctaggtttc ttttgcaaat 660
agtttncaag catttaaaaa aaaaaggtgg ggggcgggga gggagtggcc aaaatggctg 720
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cagaggaacc tcctccaccc agggaagtcg taagtgaatg tgcgatcctg ggaaaccacg 960
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ttcactggtg atagctccag gtactggaaa atccaaggag actaggaact ggagaagaag 1920
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aa 1982

<210> 1456
<211> 1600
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (95)
<223> n equals a,t,g, or c

PCT/US2004/035459

<400> 1456
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ttccttcact tagtctgtat tagtttgcta gagctgccat aacaaaatat cagagtctga 180
gtagctttaa caacaggaat ccactttctc acacttctgg aggttggaaa cccaagatca 240
aggtgctggc agggtgggtt tcacagagag ctttcaagga aggatctgtt ctgggccttt 300
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gtcctaccct aatggtcaca ttttttactt gattttctct ttaaaggctt tatatccaaa 480
tacagtcatg gtctgaggta caaggtgtta gggcttcaaa catacgaatt tgtgggagtc 540
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<210> 1457
<211> 1818
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1007)
<223> n equals a,t,g, or c

<400> 1457
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agttgaccta taatacttgt agaaagacaa agaatacagt gtgatgtttc agtgcatata 120
tgcattgtat aaggatcaaa tgagggtaat tatatccatc actaagcatt tatcatttat 180
ttgttgtggt aatattcaaa atcttctctt ctagctatct tgaaatgtct atcacattgt 240
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tgtaacttaa tacccattga aacaacttct catggtcccc cccttccccc atactcccca 360
gccataggta accactgttc tattctctgc ttctgtgaaa tcaactttta aaattcaagg 420
gtgaaattac acagtgtttg cctttctgtg ccttgctatt tcacttaaca taatggcctt 480
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gtgtgtgtgt atacacagac acacggcatt ttctttgtcc attcatctgt agatgggtgt 600
ttaggttgat tcatgtcttg actattgtga atggcactgc agtaaacatg ggagtgcaat 660
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atgcatctga caaagagtta atatccagaa catataagga actcaactca atagaaaaaa 900
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tggctatata tccaaagaaa ataaataata cattctttca tagcaaaaga gaggatcagc 1560
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<210> 1458
<211> 1264
<212> DNA
<213> Homo sapiens

<220>
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<222> (1101)
<223> n equals a,t,g, or c

<220>
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<222> (1136)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1152)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1156)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1159)
<223> n equals a,t,g, or c

<220>
<221> SITE
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<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1175)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1197)
<223> n equals a,t,g, or c

<400> 1458
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cagataattt gtttcttact ccttgactac cttcttcttt ttagatggcc aaatgtgatg 180
cttgtaagcg acagggtaaa ctcagtgagt ccttgaaatg gcgaggggaa atgaaacatt 240

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cacaaaataa tgcaggtaaa attaacctta ggtactgaat ggagtctttg gtcaatacta 360
ggaactactg ttcttttaca gatcaggaac tgtgtaaaca gttgtcatta atttcatgaa 420
acctcagttt ccttgtattc tgtatcaata acatttagct ttttttgttg aacaccttat 480
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gaggggatat gatggcttag cttgggctca gaggcctgac accttagatt aaagctgagt 900
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agaacttaaa tttatgggaa aggataacag ttaatggttt gtaattgagt ataattggct 1020
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aaag 1264

<210> 1459
<211> 1366
<212> DNA
<213> Homo sapiens

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<221> SITE
<222> (758)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (858)
<223> n equals a,t,g, or c

<400> 1459
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gtgaaaagag catttccttg ctttcctgac atgctaggaa gcaaggcaag cctaaggatt 180
cttctctgct tattcttttt tctccctagg cacagttcga gtgacaactg ctgcccatct 240
tgcactgctg gtggctaaaa acatctcctt ctttcccagc aatgtggagc aattttctga 300
gggcaacatt gatgtgtggt ggattgtgca tgatgggggg atgctatgct actaccattc 360
ctactgaaac agcacaaggt attttataca actttttttt tacaaaagtc tttctccctt 420
ctgtcctggt tcacaggaca gacaaattct tcctctgatt ataatagtgt tggggtttag 480
aatcagaaga gttggaagtt attctaggct ttcccatgat cccactttca aacaagagaa 540
atcattgtct ttgtatttga tacctactta tctccaagtg aaattcagcc aattaataaa 600
gttccatatg agccctaggg gaaaacaaca agtgaacaca tctttttta aaaaatactg 660
aaaacttaag gtatatgtat atgtgtgtat tgcacgcata tatgcgctca ttccgtggta 720
agactaatta aatgagattt aaaatagtaa atatatantc tgcatgttgt cattgataca 780
ctgtctgaat aaagtaccct cttaacgtat cgtgaaccat cttttctttt gccagtgttt 840
tcttgttatg aaattaanga ctccttaaaa ctgtattaaa tgtggtgttt agtcaatctt 900
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gagtttgaga tacaagaggt tcattccccc attcctctcc ctgtcttcct tgaatctttt 1260
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<210> 1460
<211> 2077

<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (936)
<223> n equals a,t,g, or c

<400> 1460
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gctgacttca agaatgaagc cacggaccct cgcggtgagt gttacagttc ttaaagatgg 180
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aagaacaaag cttccacagc gtggtaaggg gacccgagtg ggttgctgcc gctggctcgg 420
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ttggtgcgtt tacaatccct gagctagaca cagagtgctg attggtgtat ttacaatcct 600
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tgagtgtaag gaattggctc atgcaattat ggagaccaag tgccaagata tggagacagc 1680
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gagcccaagt ttcagtttga gtcccgaagc aggaaaagac tgatattcca tttcaagcag 1860
tcagacaagt cttatggcag ggtcagcctt ttagttctct tcaggccatc aactgattgg 1920
ataagggcga ctcacattag ggagggcaat ttgcttccaa ttcagctgtt tatctcatca 1980
aaaaacaccc tcacagacac acttggaata atgtttgacc aaatgtctgg acactttgtg 2040
ccccagtatc aagcttatcg ataccgtcga cctcgag 2077

<210> 1461
<211> 1993
<212> DNA
<213> Homo sapiens

<400> 1461
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gctctttgat tagcaggaga ctccatcaaa gagtaagttt gaggagactg tatcaaagag 180
taagactcca tcaaagactc acttttccaa ataagaccta ataaaggcag catgagctca 240
agaaaatctc tctctccctc cttttctttt gtagtttact caaaagtaaa caaaaccttt 300
tactatctcc tgttaacact acctgaaaat cttgttcaaa agagaaaacg aaatcctacc 360
tttgtatcag tatattatta atattaaacc taattttaat aaaatcttac aataaacaga 420
tccatctgat cccagtcagc tttgaccaga taagattttc atgaatcttt tataaactct 480
tacaatttta atttttcttt ctccaacttt ttagttttag ctatatcatg taaattttga 540
aacaatcttt aacctctaaa ctaggcaaaa ttacttttcc tttagcaaaa ctcacaccct 600

cctctctttt ttataacttt cttcaccaaa aacacatcct actttcattg tatactttgc 660
atacaagagt gtttcccatg tatctagtac ttttaattac atatattaac tacgatttta 720
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gacaagtctg aagacattct aattttattt taccaacaat taaaaagcta attttatttc 1560
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acaagtaaaa ctcgctattt taaaaggaca ttggattcaa agttcataaa tagaacaagt 1800
tcaagtttat tgtatatgcc tgaagccctt accaagtttt aaataacaag tagcaaattt 1860
atatttcaag cacagagaat ttaagctttc caaaaggcca attcaatttt acgttatctt 1920
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<210> 1462
<211> 1932
<212> DNA
<213> Homo sapiens

<400> 1462
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aggctgcggg gcgaatcact cgaggtcagg ggtttgagac cagcctggcc aacatggtga 1740
aaccccgtct ctaccaaaaa tacaaaaatt agctgggcgt ggtggctggc gcctgtaatc 1800

ccagctactc gggaggctga ggcaggagaa tggtgtgaac ctgggaggcg gaggttgcag 1860
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aaaaaaaaaa aa 1932

<210> 1463
<211> 1541
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (282)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (335)
<223> n equals a,t,g, or c

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tctaaatctc ctttgtccac attgtcattc tccagcttgt tgttcttttc agtggtgagg 180
taagaatata actcctactt aatgttcctg ttccttaggt gaaacactac cacctttgt 240
tcaaaagtta gatgctgggg ttgttgctgt tgttgttttc tnctttttctt ccttactttt 300
tagattttga tggagacgtg gtaggaagtc tgggnctggg aaatgaggtg aaaaagaaaa 360
gcaattagtt tgtctttata caaaataaaa ccttctaaaa aaccttatta tcacaaaaaa 420
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taatttggga gggctgggca cagtggctta tgcctgtaat cccagcactt tgggatgctg 540
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aagagaatgc aggatcataa aaatatagca aacaaagtga gtgggattta aaattagtgg 900
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agccctcctg gaagtatcta gttatggaca gtgagcagca gaaacaggat gtaactcaat 1020
tcagcatact tgatggttgt ggtaacccta gaaaatgact ccaggaaata ggtgagaatc 1080
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ggaattataa ttagacatca aagtttaaac ttttttatct gaaccgagat gcaaaagtaa 1320
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agtcagtatc aagtggtgag gataggaaag ttgaagagac tgtggaccag gcaagacctt 1440
atcagttgat ttaggaagca gcagtgacag aggccagaca ggtaacaaga aaaaaaaaaa 1500
aaggaattcg atatcaagct tatcgatacc gtcgacctcg a 1541

<210> 1464
<211> 934
<212> DNA
<213> Homo sapiens

<400> 1464
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gcacctctct acttgttctc tttgtcatca agggcaccat atagctgaaa ggcaggagga 180
tagggagagg gccacctctt catatcactt ctgtgccttg gaaagctctt ctccctggat 240
accaccggat aaagacctac acttctctcc ttgttgtgtg cacctgttca ctggagcaca 300
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gaaaatgcac tacttttaag agctgggtct gaagcagagc taactggtct gcagggcaat 420
gacacccttg acctcggsct cattagctcc atcctcttac ctactgagct cacaaccacc 480

aacatcmtaa tacttgagag aaagctcatt acagcgtatg cggtggcaca tctgtattta 540
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tgagaacaac aaacacacct actgctgagt caaatcaggc caaagggaaa agaggaagga 660
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<210> 1465
<211> 1625
<212> DNA
<213> Homo sapiens

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ttttttgttg ttttattttt ttcttatgtt tggttggtgt caccatttat tcttttgtat 180
gctgtttagc ctctggagag ggcatctctg tgtttataga agaaaaatgt gactctcatg 240
ttgtacacag ccctagactg gacatcaagg tcttctaact gtcctaagct tcttaggaag 300
atattgtcta tgtattttag tttggaatca gactggcaca ggactcggca tgcactatca 360
ctcttactgt tctatttttt cagcttggat ttacactggg caacgtggtt ggaatgtatc 420
tggctcagaa ctatgatgta agtggccata tccatgactt ccttgattcc atgtaactgt 480
tttagagtga cttttctttg tttgaggtaa ggtgtgactt ccagcataaa tgtagtccat 540
atggctgagg caaaactcct gaatattgta gaatggtttg ccattgkttg aaaaagtaat 600
ccaactcatg aaacagctgt cctccatatc accacaagag ggcaaaatcc cttcagttta 660
gctgggctca tgatcatcct cagctgtggc ttgttagccg agagtaatat taagttgggc 720
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Page 855 of 3696

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<212> DNA
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<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

<400> 1477

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<212> DNA
<213> Homo sapiens

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<211> 1294
<212> DNA
<213> Homo sapiens

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<210> 1480
<211> 2284
<212> DNA
<213> Homo sapiens

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<211> 1395
<212> DNA
<213> Homo sapiens

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<211> 1229
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (710)
<223> n equals a,t,g, or c

<400> 1482

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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

<400> 1485
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<211> 1470
<212> DNA
<213> Homo sapiens

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<210> 1487
<211> 1725
<212> DNA
<213> Homo sapiens

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<211> 903
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (302)
<223> n equals a,t,g, or c

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<210> 1489
<211> 1773
<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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<210> 1493
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<212> DNA
<213> Homo sapiens

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actctgtctt caaaaaaaaa aaaaaaaa 1528

<210> 1494
<211> 2069
<212> DNA
<213> Homo sapiens

Page 5 of 5

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<211> 1528
<212> DNA
<213> Homo sapiens

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<210> 1496
<211> 1751
<212> DNA
<213> Homo sapiens

<220>
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<222> (1741)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1742)
<223> n equals a,t,g, or c

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1740
nnaaaaaggg c 1751

<210> 1497
<211> 752
<212> DNA
<213> Homo sapiens

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 752

<210> 1498
<211> 629
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (38)
<223> n equals a,t,g, or c

<220>
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<222> (41)
<223> n equals a,t,g, or c

<400> 1498
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aaggaaggat agtccaggcc aaggaatcaa cttttgcagg gaagggaatt ttgtagggta 180
gtcagaggcc agtgtgtcat tctctgtggt tacagtgtac tgtaggtggt gcgaggtgac 240
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ttccctttcc ctaagcctcg gctgatgctt ctctgtcaaa tcaggttcat tgtcagcctg 360
ctgggttttt ttttttttta gtatatcgac tatagttaag acttcaattt ttccaattag 420
tattttaaat tatataataa ttaaattcat cctgttaaaa aattaaccct tgtaaaaatg 480
attattcttc tctccagaat gaagtgctgt tacatttttc ttacatatcc ttcagaaaga 540
cttctgtata tataaatgtc catatgtttt cttcttttca aaataaatca tattataaat 600
taaaaaaaaa aaaaaaaaag ggcggccgc 629

<210> 1499
<211> 809
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (727)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (738)

<223> n equals a,t,g, or c

<400> 1499
cccacgcgtc cggtggatca gcattttaga aactacaaat ataggtttga ttcaacactt 60
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tgtggaagga aaatatttca tttagctttt ttattaaaat acaagtaata ttattacttt 180
atgaacaatt ttttttaatt ggccatgtcg ccaaaaatac agcctatagt aaatgtgttt 240
cttgctgcca tgatgtatat ccatataaca attcagtaac aaaggtttaa agtttgaaga 300
ttatttttta aaaaggtaaa tggttaaatt ttacatgaca gatattttat ctattggcct 360
gttccccaaa tggccatttt aaaatgcttg ggtacacttc tcttaagtgg tctagtcaag 420
gaacctcaag tcatgctttt gctatcacca atcataatgt acccatcttt aatttatatc 480
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agtcagcaga tgctgttgtg aagctaatgt cacaattatg tgcaaaggtg tgcttcctgc 600
tgtatgtgag ctgtaaaaat gttacgtgaa gaaataaatg aaacttggcc aaaaaaaaaa 660
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 720
aaaaaanaaa aaaaaaanaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 780
aaaaaaaaaa aaaaaaaaaa aaaaaaaaa 809

<210> 1500
<211> 1208
<212> DNA
<213> Homo sapiens

<400> 1500
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tccacaatat cagcatttaa gtttaagcaa gtttttttat ttctagaaga cattttacta 180
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tgtgctgtaa gcctccatct gttttacaca tcctggggac atggcccaca actgcttgac 360
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aaaaaagg 1208

<210> 1501
<211> 2141
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (644)
<223> n equals a,t,g, or c

<400> 1501
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gtggacaggc aggacccagg ccagcattac aagcggggat gtcaggcagg agcaggggag 180
yttctcgctt ggcagctggt ttatggtaca cttttgaaaa gtaagctccc agggcctggc 240

cctcacatgc tcagtgaata tttgactgaa gggtcccctc atagcttggg agtattcaca 300
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gaaattgcaa cattcttgtg gaaattcaaa gacatcattt tctttcaaca aattcacaca 420
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aagttgcctg tgggaccttc agggaacaga attgccatgt tccntcactg cctgcaggga 660
aaggstccat tccaagccca gtgaagatgt gtgcctatcc agccgcccac caaggatgtc 720
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aaattcaaac tgaaaaaaaa aaaaaaaaaa agggcggccg c 2141

<210> 1502
<211> 1118
<212> DNA
<213> Homo sapiens

<400> 1502
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ggtcgccccg ccccgggagc gcggcttaat agctgagagc ccgggggcca ggccgcggct 120
gcggccaggc aacgccctga gggtggccac gctgccaggt gttccactcc cccgggacta 180
tgggcaaggg cccggggcgg ggagggcggc aggtgctgac actggagctg cgccggagtc 240
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aacccgggga ctaacggcgc cggtgacgac ttcgccgcgc gttggtcagc catggccacc 420
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ctcttatcta ccctttggca cttatcttgc ttatcaacat aataatttat acacttctaa 1080
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa 1118

<210> 1503
<211> 1769

<212> DNA
<213> Homo sapiens

<400> 1503
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ccagagagca gcggggagcc ggctgaggac gaaggcccca cggacacagc ggaggccggt 120
agtgatcctc aagccgaaca gctgctggaa gagcaggtgc cctgtggaac ggcacatgag 180
aagggcgtcc ccaaggccag aagtgaggct gcagaggctg gaaatggcgc cgagacaatg 240
gcagcagagg cagaaagtgc ccaaaccaga gttgctcctg ccccagctgc cgcggatgct 300
gaagtggaac aaactgatgc agagtctaaa gacgctgttc ccacagaatg atgctcattt 360
ccctgttcca gggaaggcgt tgggatgatg gatgcgttgg tctttctccc ttggtttgta 420
agcagtacaa gggcgtgtgc tcccagaata tgctgtaatc taattttggt gaagagaccc 480
agcgtttcct cctgagcagt gcctctcacg gcttgtctca tgcagtcgtg tggcttcttg 540
cccaggtttc aaagctgaag tacattgtcc ttagcggctg taacatgtct cttgacagta 600
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acagccactg atggaatgct tccttttta ttttttcct taatttttt ttttatttgg 720
ttgggaacag ctgaatacta ggaatatatc ttgctctata gaggattttt ttttgtatgt 780
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caccaagcac attctaggaa ttgggccctg ctcatgagga gccttagtgg agattccagg 1680
tgaatattta tgaaaaagtc aacattagaa ctgaaaatgg aaataaactg cttgaaaaga 1740
caaaaaaaaa aaaaaaaaaa aaaaaaaaa 1769

<210> 1504
<211> 1149
<212> DNA
<213> Homo sapiens

<400> 1504
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ctatcatgtt cctggtagga ggttgcatct tatttcaagc ggtgggaaaa caggacctgg 180
ctttgcatta gtaactgaag ccaggtggtg aactctcagc atgtgtaagg agccggctga 240
gaaggagctt tgctcccatg atattaaatt atctgattat tgaaaacttt tgtaaatggt 300
cattagtgag caaattgtct ttttaaaaat tctattatga aagagtttta aacttaacag 360
aaaataggca agaacagtgc caagaactcc tgtacactcc tttgcccaga gactattcct 420
ttagagcaaa ggctacagcc cagaatcacg cgcttcaccc cattcatcac agctctcctt 480
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aggttatagg ctgatcattt tgtagaatgt ctttcaatgt ggattcgttg atgtttctgc 600
atgattagac cccacctgtg tgtacttgaa gcctgaatgt cacagactct gttcttttta 660
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gtttaagacc agcctggcca acatggagaa acctcgtctc tactaaaaaa aaaaaaaaag 1140
ggcggccgc 1149

EP 2 264 063 A2

<210> 1505
<211> 1281
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (29)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (47)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (83)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (121)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (133)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (154)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1166)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1262)
<223> n equals a,t,g, or c

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atttatttt tgttttttt taatcacagt aggtctgata gagaattgga gctaaattat 540
aatatttttg ttggtaaagt tgagttatat acttgtacat acaatggaaa tgcttttagt 600
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ctagcattta aatttaaatt ttattaaaat taaataattt aaatctagca tttaaattta 720
aataatttaa gtctagcatt tacttttaaa taattataat gaagttttga aatactaagt 780
taatccagac ctttagttgt cccatggtgt taataaagtt gccaaagaag atgtattatg 840

aacaattcag caataagaca attgtcaaca cagttgagaa taacaatggt aatcgttagt 900
aatatttaga attggaattt gcctactgaa atagttatag atgattactt gtgatgtgaa 960
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gtaattttcc agaaaaacac ctaaagaaaa taaaacatgg acatgcctag taaaaaaaaa 1140
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tngtgactgg gaaaaccctg g 1281

<210> 1506
<211> 1149
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1138)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1139)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1140)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1143)
<223> n equals a,t,g, or c

<400> 1506
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gagtggaatg attaatgatg ttttgcagca gttttctacg tctgaaattt tttatgtctc 180
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tanccggac 1149

<210> 1507
<211> 1869
<212> DNA
<213> Homo sapiens

EFS-Web Submission

<400> 1507
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caccatttat tttgttgctc cagttcttcc agctgtggcc aatccttcag ttggattctt 180
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aaaaaaaaa 1869

<210> 1508
<211> 1867
<212> DNA
<213> Homo sapiens

<400> 1508
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aaaaaaa 1867

<210> 1509
<211> 1156
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (942)
<223> n equals a,t,g, or c

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<210> 1510
<211> 1472
<212> DNA
<213> Homo sapiens

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<210> 1511
<211> 1991
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (231)
<223> n equals a,t,g, or c

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attaagaatc ttaatgcagt ttactgatgg attaaaaaca gctaacattg tctgaaaatt 1920
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aaaactcgta g 1991

<210> 1512
<211> 1994
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (231)
<223> n equals a,t,g, or c

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atggtaccag ggggagtcca atataaatta taacacggat ctgtacaatt gcacattccc 120
tgcactcatc gaagactggc gtgaaacctt ccaccgtggt tcccaggggc agacggagcg 180
tttcttccca tttggacttg tccagttatc ttcagatttg tctaagaaga nctcagacga 240
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gatgcccaat actttcatgg ctgtagctat ggatctctgt gatagagact cgccttttgg 360
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caagcatata aaaaaaaatg cagatgatac aaatatgaaa gaggccttca gtgtttgttt 1860
attaagaatc ttaatgcagt ttactgatgg attaaaaaca gctaacattg tctgaaaatt 1920
atgttaccta taagaagttg gaaataaata aaagcataat cactaaaaaa aaaaaaaaaa 1980
aaaaaaaaaa aaaa 1994

<210> 1513
<211> 712
<212> DNA
<213> Homo sapiens

<400> 1513
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aggcagcaat gaatgtggat cacgaggtta acctcttagt ggaggaaatt catcgtttgg 180
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aatgtgccaa cctctttgaa gcattggtag gaactcttaa agctgcaaaa cgaaggaaga 300
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agacatgtaa ctgtcttaaa tttaaaaaaa aaaaaaaaaa aaaaaaactc ga 712

<210> 1514
<211> 486
<212> DNA
<213> Homo sapiens

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cttacagacc caccaacaac caagaagctg cactggttgg tacacactgc agcaaacaag 180
gaaaacaagt atgataaaaa gtccaacatc aaaaagaaaa aaaaaaccat agaaacaatt 240
gaagagagaa tggctaaagg acatgaaaag acagttcata caaagggaaa ttcaatgctg 300
ttctcgctga ggctggagtc caatgatgcg atctcagctc actgcaactt ccgtctcctg 360
ggttcaggag aatggcgtga acccgggagg cggagcttgc agtgagctga gattgcgcca 420
ctgcactcca gcctgggcga cagagcgaga ctccatctca aaaaaaaaaa aaaaaaaaaa 480
ctcgag 486

<210> 1515
<211> 654
<212> DNA
<213> Homo sapiens

<400> 1515
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atattctatc acaaacactt attgtatctc tgtaaaatac aatgtatgta tgcatgtaag 420
tgtttttgtc ctaatgttgc tactcccatg gcaaagaaaa aaaaaagaat gaaaaaaaga 480
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ttgctctagt atggtgtatt taaataataa aaacttaaaa gaaaaaaaaa aaaa 654

<210> 1516
<211> 974
<212> DNA
<213> Homo sapiens

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aaaaaaaaaa aaaa 974

<210> 1517
<211> 472
<212> DNA
<213> Homo sapiens

<400> 1517
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gcaacaccta ggagatttca gtaaacagta gaatcatgcc aacctaatct gtgttaaaat 240
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aattgatcag ccactttgag attaaaaccc ctgaaagctg ccacaccgtg aaaacaaggc 420
ctccttcaca ttaaaggcaa attgcgactt tgaaaaaaaa aaaaaaaaaa aa 472

<210> 1518
<211> 924
<212> DNA
<213> Homo sapiens

<400> 1518
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gacttaagta actgtgtact tcattgttta atattttgag ccagcactta gtggcctcta 240
cagaaggaaa tattgtagtt gtcaaagtgg tgccaaactt gaaaatcttg tgtcatgttt 300
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cagctacttg ggaggctgag gcaggagcat tgcttgagcc tgggaggtgg aggttgtagt 840
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<210> 1519
<211> 807
<212> DNA
<213> Homo sapiens

<400> 1519
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aaattaagaa tattttgcta atatgcccaa caccaatttc agcaaatcca atctacttaa 180
ctcatatatt taatgtggta atttttctaa caaaatttaa tgggggtatg aatgatatat 240
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ccacactttc ccatttttcc aggcatttta gttccaggcc agactctgcc aatatcacca 660

gttgcaacag ctccaggtct cctgtgggtt ttcgtttgac catgcgtagc aggctggcct 720
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<210> 1520
<211> 893
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (18)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (28)
<223> n equals a,t,g, or c

<400> 1520
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gatgtgcatg cttgagatgg ctacatctga atatccttac tcggagtgcc aaaatgctgc 180
gcagatctac cgtcgcgtga ccagtggggt gaagccagcc agttttgaca aagtagcaat 240
tcctgaagtg aaggaaatta ttgaaggatg catacgacaa aacaaagatg aaagatattc 300
catcaaagac cttttgaacc atgccttctt ccaagaggaa acaggagtac gggtagaatt 360
agcagaagaa gatgatggag aaaaaatagc cataaaatta tggctacgta ttgaagatat 420
taagaaatta aagggaaaat acaaagataa tgaagctatt gagttttctt ttgatttaga 480
gagagatgtc ccagaagatg ttgcacaaga aatggtagag tctgggtatg tctgtgaagg 540
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agagcagcgg cagttggtac gggaggagca agaaaaaaaa aagcaggaag agagcagtct 660
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gttatctgat gggacggttg acagtggtca gggatcctct gtcttcacag aat 893

<210> 1521
<211> 2037
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (22)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (28)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (68)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1974)
<223> n equals a,t,g, or c

<400> 1521
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cagggtgcaa tcatggtgtc cagcgtggtg raggtggtga ttggcctgct ggggctgcct 180
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<210> 1522
<211> 1417
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (510)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (696)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1363)
<223> n equals a,t,g, or c

EP 2 345 659 A2

<220>
<221> SITE
<222> (1389)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1394)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1417)
<223> n equals a,t,g, or c

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gaggcgaatt tttgcattta tgtcggatcc tcagtgaaaa taaaagccat gatagttcaa 120
catacagaga tttccagcaa gctctctatg agttgtcata tcatgtaatt aaaggaaatc 180
taaagcatga acaggcatct aatgttctta gtgacattag tgaatttcgt gaggatatgc 240
cctccattct tgctgatgta ttctgcatat tagacattga gacaaattgt ttagaagaaa 300
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cagttctaaa ggaacgcctg gatccagaaa cactggaatc attagggctt atcaaacaat 420
cacagcaatt caatcaaaag tcagttaaaa tcaagacaaa actcttttat aagcagcaaa 480
aattcaattt gttaagagaa gagaatgaan gttatgccaa gctgattgct gaattggggc 540
aagatttatc tggaagtatt actagtgatt taatcttaga aaatatcaaa tctttaatag 600
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gcagaccagt aatgtacttt ctgtctctgt gatttngcct gttttggaca tttcatttaa 720
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acccaattng ccgnataggg agtcgtatta ctttcan 1417

<210> 1523
<211> 1837
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1697)
<223> n equals a,t,g, or c

<400> 1523
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gattttacca gtttttctgc tagtgtactt tttctattcc agggtccaat ctaaaatccc 180
acattgcatt tagtttgtgt gtattttctt tctttattat tatttttttt ttggtaatta 240
agtttttttaa aaaggtcata gactataggg atttcattta caagaataat atcttcagca 300
tatggccctt tcctgatatg tctgactaat gggtttctaa aatgtatttg cagagattgc 360
cttgcaacag gtttccatgt tcttccgatc agaaccaaag tgggaggtgg tggaaccttt 420
gaaagacata ggtgagacat tggcacgctc attctgttaa aaagacagat cacagaactg 480
gatccttagt catgctttct gatacgtatc ccaggaacat gcttaaatgc aggtgacttc 540

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accttggtta aagccccatc aaagcatttg gatggtaata actttcagaa acaccattcc 660
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gatccctaca aagttanaag aggcattgag aattgccaaa gaatgtatag agaagagact 1740
aattgaggaa cagaaacaga ttcaccagca tcgaagactg acaagagctc agtcccacca 1800
tggatctgag gaggaaagaa aaaaaaaaaa aaaaaaa 1837

<210> 1524
<211> 493
<212> DNA
<213> Homo sapiens

<400> 1524
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tcctggcctc ttgatctcag ttcagactgc aaactcttag gggcaggggt agctacatat 120
caggctatgg gtttggtgct agaatggtgt tgatactgtg gtgttctctg aggatgggga 180
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gggaagatgc ctggagtctt tggaatggca actcctgctg atggagtaat ctatctgtct 300
ctctttccag gtggatggga agagagtccc aagggatgca gggcatcctc tgtacccctt 360
taatgacccg tactgagacc acagcttctt ggcctccctt ccagctctgc agctaatgag 420
gtcctgccac aacggaaaga gggagttaat aaagccattg gagcatccaa aaaaaaaaaa 480
aaaaaaaaaa aaa 493

<210> 1525
<211> 460
<212> DNA
<213> Homo sapiens

<400> 1525
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ggttggcgat gttcttattg gcgatactct tgccggtgtt cctcgtagcc tggggaggca 180
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catgcatttt gaacgggcta aaaaaaaaaa aaaaaaaaaa 460

<210> 1526
<211> 1369
<212> DNA
<213> Homo sapiens

<400> 1526
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atagatgagt gacgcttagc tgttttatgt aaatggcttt cctaacaatg agaatactct 240
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caatgtgaca gtatcatgct ttaattcagt catttcattt ctaggaatta tcctaaggaa 420
atagttataa aagacacaca atgatttatg ggcatggctt tgcatttcag tgacatttgt 480
aataataaaa agttagaaac aaacgaaata ggttaaaaaa ttatggtatg cccaaatgaa 540
gacatattct cctatcagtg gtaattaata ctttttaaaa attgtccaaa ctttttgcaa 600
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<210> 1527
<211> 1556
<212> DNA
<213> Homo sapiens

<400> 1527
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taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 1556

<210> 1528
<211> 1259
<212> DNA
<213> Homo sapiens

<400> 1528
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<212> DNA
<213> Homo sapiens

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<210> 1530
<211> 1876
<212> DNA
<213> Homo sapiens

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atagtgagtc gtacac 1876

<210> 1531
<211> 1876
<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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Patent Application Publication

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<213> Homo sapiens

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<213> Homo sapiens

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<211> 522
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<211> 580
<212> DNA
<213> Homo sapiens

09/534,705 - 03/24/2000

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<210> 1540
<211> 1448
<212> DNA
<213> Homo sapiens

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tkggaataaa agacatttta actgatgtgc acaattatta atctagtgga taagatggat 180
ttaaaaggaa gaacaaaatg ttcccagtac tttttactgt ctgtggtttt attactatct 240
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tggcatcagg ggttggatgc tggttctcaa gttcctagct ctgccccttg ttagtcattt 360
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cagacttttt atactactgt tagtatttaa atttgggata gtctggatgc cacctaatac 540
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aaaaaaaa 1448

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<211> 1143
<212> DNA
<213> Homo sapiens

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gtggagctgg atatgcaaaa aatggttccc ctacttcttg gtgaggttca ctgtgatata 180
caacgaacag atggcaagca agaagcggga gctcttcagt aacctgcagg agtttgcggg 240
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aaa 1143

<210> 1542
<211> 1589
<212> DNA
<213> Homo sapiens

<400> 1542
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aaccaccgcg cccggccgac agtgattttt cataaaggtg ttccctttgt tctgggattt 180
ttagccttca tacattttta ctgttaggca tttccttttt cagatgatgg tgataatagt 240
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ctttttgaag cccttgaaat gaagtttagg gaccactgat ctagaattct ctttatgctc 360
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aaagaaaaaa aaaaaaaaaa aaactcgag 1589

<210> 1543
<211> 831
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (53)
<223> n equals a,t,g, or c

<400> 1543
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ccatccctct gtcaccaatc cacagtgggt ttggggagga ggcatggcca acatccactg 180
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aatgcttttg ccttcattta cttaggttgc tcccttaaac aggctcacat tttaaacata 420
acctctgcct cctaagcaaa tacttatatt cataaattac tcccacctga accaccacca 480
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atccacttac caggcactgg gtgggagcag gcagcagggc acatcctccc tccttggaag 600
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<210> 1544
<211> 784
<212> DNA
<213> Homo sapiens

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caagcatgtt ggaaactaga accaggggtt tcatatcaag ccatttgctt aggtctgtat 300
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tttyattttt ggaaaacaaa tagtgagtca gtctgctttc cctccctttc tctgcctcac 540
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aattttcctt gagccatgac agaatcatga gagagctccc ctggctctga tacttaatgc 660
ccccctctaa aaagaaaggt ctatttgagg ctattcactt ttgtcatctt gaaagagtct 720
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<210> 1545
<211> 1178
<212> DNA

<213> Homo sapiens

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tggaacacag ggtgacgtat ttctttttcc atgtcttcag ccatttccca cttcgcttta 660
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<210> 1546
<211> 1579
<212> DNA
<213> Homo sapiens

<400> 1546
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ggggttaagg tgatgcccaa tgctattgtg caatccgttg gagtcagcag tggcaagtta 660
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aaaaaaaaaa aaactcgag 1579

<210> 1547
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<212> DNA

PCT/US2003/041526

EFS-Web 6.0.5.3

<213> Homo sapiens

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<210> 1548
<211> 1563
<212> DNA
<213> Homo sapiens

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tccctgaaaa agctaaggat atctttattg aagctcacct ttgtctaaat aactcagacc 480
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agaataatta gtgtttataa gacatttaag aggccctttt tcatatactg actcactgat 1500
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aaa 1563

<210> 1549
<211> 1847
<212> DNA
<213> Homo sapiens

<400> 1549
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10254-30-3650-3650

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Page 907 of 1561

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<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (3315)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (3332)
<223> n equals a,t,g, or c

<400> 1561
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actttgttag tggtngaata aaaaaaaaaa an 3332

<210> 1562
<211> 1314
<212> DNA
<213> Homo sapiens

<400> 1562
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gcattcgatg tgctggaatc cacaggaatc tgggggtgca catatccagg gtaaagtcag 180
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aggcaaaccg actttatgaa gcctatcttc ctgagacctt tcggcgacct cagatagacc 300
cagctgttga aggatttatt cgagacaaat atgagaagaa gaaatacatg gaccgaagtc 360
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gacagtcaat gagtggcgga aatggacagg cagcaaatca gactctcagt cctcagatgt 1260
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<210> 1563
<211> 2545
<212> DNA
<213> Homo sapiens

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gcattcgatg tgctggaatc cacaggaatc tgggggtgca catatccagg gtaaagtcag 180
ttaacctcga ccagtggact caagaacaga ttcagtgcat gcaagagatg ggaaatggaa 240
aggcaaaccg actttatgaa gcctatcttc ctgagacctt tcggcgacct cagatagacc 300
cagctgttga aggatttatt cgagacaaat atgagaagaa gaaatacatg gaccgaagtc 360

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aagacccaca gctacctcgg aaaagctccc cgaaatccac agcgcctgtc atggatttgt 540
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<210> 1564
<211> 1564
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (50)
<223> n equals a,t,g, or c

<400> 1564
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gaaagaaaga aaaagagttc cctaagtaag ctcctactgg gtgtcctcca ctcacatgga 180
gacagggccc tgcttttagg cacttactct tccagtgtct attgyataat atgttcagga 240
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aaaa 1564

<210> 1565
<211> 914
<212> DNA
<213> Homo sapiens

<400> 1565
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aaaaaaaaaa aaaa 914

<210> 1566
<211> 2235
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1097)
<223> n equals a,t,g, or c

<400> 1566
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aaaaaaaact cgtag 2235

<210> 1567
<211> 1369
<212> DNA
<213> Homo sapiens

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catttgctct tatggcagac agtgtgctct ggtggcgctg gaagatgtta aggcgtatct 180
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caccettgca gcagcctggc tacccagccc caccttgagt ctgccctggt ggggttctgt 300
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<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

<220>

EFS-Web Upload

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<220>
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<213> Homo sapiens

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<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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PCT/US2003/041538

<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 1551
<212> DNA
<213> Homo sapiens

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<210> 1585
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<212> DNA
<213> Homo sapiens

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<210> 1586
<211> 942
<212> DNA
<213> Homo sapiens

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<210> 1587
<211> 1124
<212> DNA
<213> Homo sapiens

EP 2 275 564 A2

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<210> 1588
<211> 1170
<212> DNA
<213> Homo sapiens

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<210> 1589
<211> 1150
<212> DNA
<213> Homo sapiens

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<210> 1590
<211> 2612
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<222> (1365)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1402)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1423)
<223> n equals a,t,g, or c

<400> 1591
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agttactagt ttcttggctg tcattctatg catttataaa cagttgcatt tttttccct 180
tatttttact agcatattat gtatactagt ttatacttcg actttcccat gtaatataga 240
atcttgagag attattctat actgtaacat aaaagagctt ccttgaaaaa atattcttaa 300
aatagaatat tccataaaat attctataaa atactgcttt gaatatttgc accactatct 360
ttttttcttt tttttttga gatggattct cgctctactg cccaggctgg agtacagtgg 420
caccatctcg gctcactgca acccccacct cccaaatcta tgatctcttt catatttgct 480
tacttttcta ttagattgtt gatccttcct cttactgatt tatagaagcc ctttgttagg 540
tgcattagct cattgaggta tgagttgaat gtatccagat ttataaattt taaaagaggg 600
atttacaaaa gtcctctaag tcttgcttta agttaatggt tagagctgtg aaaacctaat 660
taagtcattt cacacaatgt tctcccatga gaaaatccaa agtttgttta aaattcaaaa 720
tttaccattt taatcatttt aagtgtatag ctaagtggca ttaaatacat tcacaatatt 780
gtataaccac caccactttc tatttccaga agtttttcat cacccaaact acaactctat 840
taaagtaata actactcatt tccttcccgt cctcccagcc cctggtaacc tgtactctgc 900
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ttttcctttt ttgtctggct tatttcactt agcataatgt tttcaaggct catccatatt 1020
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gttgcagtga gctgagattg cnccatgcac tccaacccgg gcnacagaga ccctgtctca 1440
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<210> 1592
<211> 1566
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1013)
<223> n equals a,t,g, or c

Page 927 of 1638

<220>
<221> SITE
<222> (1020)
<223> n equals a,t,g, or c

<400> 1592
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ataatttatt ttactttcag ttatctgcta acgcagctat gcaaaatgac tcatttattg 180
gggagtgggt ggtggcatta ggtaaagtct taccatattg tctattttga ctgtttcatt 240
cttaatagaa gtctacacat tgcctgcaat tgaggtataa ttttctttaa agggagtgtt 300
gtttcagata aggtagctgc gacctaagaa aggaataatt ctatatgatt ttaagtcttt 360
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atgtgctttc tttgcctgcc tgctcatctg cagccctgat cacagaagga agggagaagt 480
agataagaaa tagtagttat gaggatgaaa cgtgcacata taggagccct ctcacgttag 540
gcttggtttg gtgtctggag gcacgtgatg agaacagcag tggatctgtg ggctcatgtt 600
tccttactcc tgctctatta ggactccagt ctgaagggat gatctagtac caaccaggag 660
atgtttagaa gamcgasatg tttcctgaag tattctgagc tgtctcargt tgattacgtg 720
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aattttggat tttttgcara tgctttttgt aaaagaacac ctatgagtga ggcctatggt 840
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ggaaagagtg gtcagtagat ttcccagtgc tgtactcatg ccattcagct catagtcaca 960
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tataattgta ataaatacta tgtaagtctg aaaggggaaa gagaacttga gtttgcgact 1380
tttcttataa tcttgaagaa gtaattccca gacttcagag tgtgtaagaa atcactagaa 1440
tgctagttta aaaaggcatg gattcctata ccccagttac acagttctta tggcctggga 1500
tagagcctgg aagtctgcat gtcacaggtg aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1560
actcga 1566

<210> 1593
<211> 1638
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1578)
<223> n equals a,t,g, or c

<400> 1593
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gtgctgctta atgacgtttt cgtcaacaat gggccacata tatgatggtc caaagcacta 180
tactgtacat catctcattg gaaaacctta tgaaatagga gggcaactat catcataatc 240
atcttccttc cccccaccac caacttcagg gagtgaggtc ctgggaaatg aagggacact 300
atccatgtgc ttggatgtct ctatcctggt tccgtactct ttccgctatg atatactgcc 360
ttctatatat agataaaagt tcaattytct ttttcacaaa tgagaggaga atatgattga 420
gttttagtaa aattgatatc cagtaatact ataatgtatt tagatcaagt tagcacctaa 480
atagcaaacc tgcttgctct attaagctag tgatttttca ctataggtgc taacaaccat 540
tacgtagcat ctattctcta aaattgttgc tatcggtcta gcagaggagc agtgcactaa 600
tgtgggtgca gatattatag aaaccagaat acatgggtga tgactgttcc actcaccatc 660
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gagatcaaag gggcaagtca gcatcagctg aaagttgaat cacctcatta aagaatttta 780
tatccctttc agggggttga tttggaaagg aaaacagaca taagatttga atgtatcagt 840
gtggctactt gtgaacatac tgcattcaac taatggatag aaatttgaat aaaatatttc 900

agaagaggtt tttcttgtgt gtgtgtgttt ttaaaaagaa ttttgtaatg cacttcttcc 960
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gtcattctgc ttgagggtaa tggtgggtgt cataatactc tatgaccacg tacatccagt 1080
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atgcctgtag cccaagcact ttggcaggct gaagcaggag gatcacttga gcccaggagt 1560
agaagaccag cctgggcngc atagtgagac ccccatttct acaaaaaaaa aaaaaaaaaa 1620
ctcgaggggg ggcccgaa 1638

<210> 1594
<211> 935
<212> DNA
<213> Homo sapiens

<400> 1594
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atgagactca gtgagatgaa gttggtgggt cacttggctg gggcaggtgt cacggagcgg 300
gacctgtgat tgttcagcca cctactctgt gcccagtgct gtgttggtga ccaggtatgt 360
atgaagtcag taagccacag tcctgagtta tggtgcagac cccacatgca cccagagtca 420
gcttggcaag acccccttgac accacgtgcg tggagggtgc aggtcggaga gctcacctcc 480
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cctgcccgct actgtaacta agtgctttac tcctgttatc tcatttaatt ctcaaagcag 720
ccctgtggca ctgaggtggc tggagatgga gggatgtgtg gctgccatgt gtttgccagg 780
aagcagcagg atgggagtga gggcacagac agacacacat gccaggactt gtttgcacga 840
agctgaggaa tgggtgccca tcattcatta tactcatctc tctgttttat gtatattcaa 900
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa 935

<210> 1595
<211> 628
<212> DNA
<213> Homo sapiens

<400> 1595
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caaaaaaaga aaagaaaaat tttatatatg taatttaact tgcaaatgac aagtttttaa 180
tattttctta tttttgcttg tgtttgttta tgcctttaat tccttgacca gaatgactat 240
agctaaatta actttggtag tgtattttca ttcatttact atctcgtcat ttccatgggt 300
caggagtctg ggcacacctt agctgggtcc tctgttgaga gtctcaaaaa ggctaaccag 360
aaggtatcag ccaaattgta tttatttcta gaggttggag tgctcttcca agttcatgga 420
gttgttggca gaattcagtt ccttgcaact gtgggactga ggtagccatt ttcttgaggg 480
ctaatggcca gaaattgctc tcagctcctt agaggctatt cacagttcct tgccacgtgg 540
ccttctcaca gaccctctca gagcacagca gcttttacat cttcaagatc atcagcagga 600
gatctgtctc ctgctgcttc tctcttac 628

<210> 1596
<211> 410
<212> DNA
<213> Homo sapiens

<400> 1596

gaattcggca cgagatgcct tggtatttct ccccttccct gttgtggtct ctgtttcagt 60
ggtcggactc agaagcaggt tctcgactat gttaaagaag gaggacataa gaaggtgcag 120
tttgaaaggt aagagaagct tcaatgctac ttccagtctg agaaggctca gactcgccag 180
gtaacagttt gttgctgcta aatatttctt tacccagact tcagacttga tgtcccttga 240
gttgtaaatg atagtctcag tcatcctcag caagtccagt gttagagagg aaggttttag 300
agcccagggg cacaccctcg agggggggcc cggtacccaa ttcgccctat agtgagtcgt 360
attacaattc actggccgtc gttttacaac gtcgtgactg ggaaaaccct 410

<210> 1597
<211> 1409
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (478)
<223> n equals a,t,g, or c

<400> 1597
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tatgtacata tggcaaagat tattcccact ttacagatga aggagcattt acttgaaagg 120
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atgatttctc caaaccgccc tacattatat gatttcttat cttcattgtg ttgctgatta 240
aacagtttaa gtgatttatc cagttcctct taggaagtgg cagaatagaa agctatgatg 300
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gttgactctc tmtcttagtc cgttctatgt tgctgtagag agatatgtga gactgggtaa 540
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aaaacctggc tcacatttta tgctaatact aaggagtaaa aaaacatcca ttacttattg 1380
tatacaataa aagcttcaca acaattgag 1409

<210> 1598
<211> 1300
<212> DNA
<213> Homo sapiens

<400> 1598
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ctcttggggt tgtggggaat tkagatgcca ctggccattt ttgccttagt tgacctttt 180
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agatttttag tcaaactaag caagaggact taacatttca gcaactcagt ttgcaccatg 1080
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tataagaagt tggtacatgg ccaggcacgg tgctcacgcc tgtaatccca gcactttggg 1260
aggccaaggt gggtggatca cttgagttca ggagctcgag 1300

<210> 1599
<211> 397
<212> DNA
<213> Homo sapiens

<400> 1599
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aagtcaggaa acaacaggtg ctggagagga tgtggagaaa taggaactgc aggttcactt 120
tcatwttagg attattgagg tataatgtac atgcaacacg tattactatg tctaatgtac 180
atttcaatga gttttaacaa atttatattg tcatgtaata atcaccatga tcaatttaca 240
gaacgtttcc acttgctgta gtttggatgt ttgtccccca aagtgcacgt tgaaatttga 300
tccccaatgt tggaggtggg gcttaatggg aggtgttggg gttattggag tggatccctc 360
aagaatgcct tggtgccatc ctcgaggggg gggcccg 397

<210> 1600
<211> 964
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (883)
<223> n equals a,t,g, or c

<400> 1600
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tctgtctgac tccaaaaacc aaatggtttc ctcctcatca tttcagaaac tagcaaaatg 120
cttttatgta caccatttga ttttagaatc ctgtacattt tctaaatgag ggcagtgaga 180
ctcagaaaaa tagtatgtcc aaagtgacta aggtagtaga gagaagattc aaaaccctat 240
cccaggcctt ctgactccca ttccaatgct cttccagcta catcacagat cttttgagca 300
ccccctgaaa tcgcacccaa actgatgttc acgtggcaga tacctcacca ccctctcctc 360
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tctagaggga tatattgcac agccttgtcc ctgcctcccc tatttcaccg ctgatttctg 540
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gagttcctcc agagggactg gcagctctgt caagaccata tacgattttc ccatgaaaag 660
tacctttgga agaagatttc ttcatcagtt tccaccatga acacagatgg acacgtttct 720
ccagaatctt ctctgctgtc atttgctgtc ctgcaaagaa cctgggattg tccttcgctg 780
ggacagagag ggtcaggccc aggctggaag ttctcggttc cactggtgct ctcgggggga 840
aaaatgtggt atttttcctt ttgtcttttc tgcttttgtt ttncgctttg ctccaagctg 900
atgattctct cagcttctgt cttcatgatg ccaacactac caaatgaaaa aaaaaaaact 960
cgag 964

<210> 1601
<211> 1004
<212> DNA
<213> Homo sapiens

<400> 1601

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tagaaaagat ggaaagttca aaataataat tatgaagtgc ataaaatagg gtgtgttagt 120
caactatgcc acagcagtgc tgggtagcat acagccagta actccacaac agcaagcatg 180
tgtacctcat ttatgcaact atggtttgtc ctgggtttgg ctgatctagg ctgggcttgg 240
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cagagaggca ggcgagggcc agatcttgct gagctacgga aagaaatggc acatttgatt 660
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gagcagatgc agggaagtcc cagcaggtcg gacactggtt ccagtgttcc taggtgggtg 780
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gagaaacaga agcaaatgga cagggtacca aagtggataa catgtggtcc ctgaccttaa 900
agagctaata acctacttga tgagaaaaag atgtacagac acagccatgg tttggagaga 960
tatgttttta aaataaggcc atacacaaaa aaaaaaaaaa aaaa 1004

<210> 1602
<211> 1110
<212> DNA
<213> Homo sapiens

<400> 1602
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attagagaga tggtctgggc ttttaaaggc ataactgaaa agggaatttc atactagtta 120
tggttaatgc cagagtgcta gaactagtga agcctactgg gagaaggtat gtttttctaa 180
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aatctgtgtt ttgatcccta tgatgtaaac aatattagtg gatggattcc aggattcttc 360
tgagagaggg atatcttttt gtttacagaa attatttgat gagagattaa cataaaaaat 420
gatgatttga atgcctggat ggctgtcccg aaagcaacca gagaaaatgg ttgataagaa 480
aatcaagaga tgcacttaag tttgacttgt ttttgttttc tcctgggaag atgaatagtg 540
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agattggctg ctgtaggatg agaacaatca ctgggtacat gtaaataaga aatattatag 660
agcgtagata tttctaataa agagtttaat ctctctttct gttttgtgca atatatgtca 720
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taacaataac tgataaaagc tgctgtatcc tcattcatag gtagattatg tttataaaga 1020
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gaattgctac attttgattg gttgaatgca 1110

<210> 1603
<211> 639
<212> DNA
<213> Homo sapiens

<400> 1603
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10254.60-US-P1

<210> 1604
<211> 1197
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<210> 1606
<211> 1112
<212> DNA
<213> Homo sapiens

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<211> 418
<212> DNA
<213> Homo sapiens

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<221> SITE
<222> (80)
<223> n equals a,t,g, or c

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<210> 1608
<211> 759
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (740)
<223> n equals a,t,g, or c

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<210> 1609
<211> 1440
<212> DNA
<213> Homo sapiens

<400> 1609
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<210> 1610
<211> 961
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (549)
<223> n equals a,t,g, or c

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g 961

<210> 1611
<211> 1174
<212> DNA
<213> Homo sapiens

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EP 1 637 530 A2

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<210> 1612
<211> 1939
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1874)
<223> n equals a,t,g, or c

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PCT/US2003/036356

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<211> 731
<212> DNA
<213> Homo sapiens

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<210> 1614
<211> 1374
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (642)
<223> n equals a,t,g, or c

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<211> 1000
<212> DNA
<213> Homo sapiens

WO 2004/063355 PCT/US2003/040526

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<210> 1616
<211> 1122
<212> DNA
<213> Homo sapiens

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tgtgtgtggt atggaatgga tggcaaaagg tcagtgagct ctgtgggaga cagcacggtg 180
ccaaggggac cgtgtcacct tcctcacctc tgcctctgtc tcagacacct gctgacatat 240
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gcagagacat gaagtgacag aatgagatca cccacagcga catctgccac tacccaggtg 420
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<210> 1617
<211> 996
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (190)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (985)
<223> n equals a,t,g, or c

<400> 1617

10874430 - 060556

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ttaaattgta agctccttga gggcaggaat aataactttt acatttgtat ctctgcaccc    900
ccgagtgcct agtatagtgc tgagcacata gtaggcgttt aataaatgct tgttgaagta    960
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<210> 1618
<211> 2111
<212> DNA
<213> Homo sapiens

<400> 1618
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taaaagcagt ggagtaattt tctttcccgt agttctccct cagccccctg aatcataaga    180
atcaaccctc attccttttc tcccaacctc tcaggtgcat ttgctgagtc actgcatgtt    240
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gaagtgggga gggtgagctt tggactgaac acccaaggsc cacggccacc agctacgagg    360
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gctttgtcac ttcccatcca gargcagttt ctgtgttctt ccccttgaac gtgggargca    780
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cagcttatgt tcactctttc ctgtaatcat ttccaggcct cgtggaaaag tgttaccaat   2040
taatactccc attatagaac tggaacaaaa caaagtgcag gacgtgggac aaatcagtta   2100
aatatcctcg a                                                        2111
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<210> 1619
<211> 473
<212> DNA
<213> Homo sapiens

<400> 1619
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caacagaaaa tgaaccaagw sgtatgttct ctttggtatc tgctgctttt attcaacatt 180
aggtttataa aattcatcaa cattgatgtg catagcaata gttcattcac tctcattgcc 240
ttatgggacc ccgctgtatg agccatctat ctattgtatc tatggctgtg gracaaacta 300
ccccaaaacc tagtgactta aaacaakaac atttatcttg catagtttct atgcattagg 360
aatttcaaga gcagcctagc tgggcagttc tggctcaggg cctctcatgt ggttgcagct 420
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<210> 1620
<211> 1478
<212> DNA
<213> Homo sapiens

<400> 1620
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tttttaaaga atatgataac tttatattgg gtcctagata ccatactgta tttagggaat 180
ttaccaagat agagctggct ttattgtaag tcaagcaaaa tgaactggcg ttcttgtaag 240
ctgggttcag tctactatta tcggttctgt acagtgtctc ctcgtgtgct agtgaaacag 300
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<210> 1621
<211> 601
<212> DNA
<213> Homo sapiens

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<221> SITE
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (292)
<223> n equals a,t,g, or c

PCT/US2003/036356

<400> 1621
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aatttcgttt cccttccacc aacaaatcaa agatcwgtta tggtttcatg ctaaccgcca 240
ctgakgcttg gttggctttt ctctcttgct tatcacagtg acatctgcag antaccctgg 300
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g 601

<210> 1622
<211> 1120
<212> DNA
<213> Homo sapiens

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<221> SITE
<222> (994)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1045)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1049)
<223> n equals a,t,g, or c

<400> 1622
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<210> 1623
<211> 755
<212> DNA
<213> Homo sapiens

<220>

EP 1 369 488 A2

<221> SITE
<222> (512)
<223> n equals a,t,g, or c

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acacaatcta cgagggagaa gtttgctttt atttttgttt ttgttttagt aatctatgct 660
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<210> 1624
<211> 2388
<212> DNA
<213> Homo sapiens

<400> 1624
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aatgattttt gttgctgcca cacttcctac ttttttgtat gagcttaaac ctatgtcttg 180
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<210> 1625
<211> 1245
<212> DNA
<213> Homo sapiens

<400> 1625
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<210> 1626
<211> 431
<212> DNA
<213> Homo sapiens

<400> 1626
ggcacgaggt gaattgtctt ctccacatat ccattagcag agtgcatgtt cggtaccaaa 60
gggtggtgtg atgcaagctc tctttcctgc tgctctcgta gtttcctgtg ttgctgtgaa 120
atagaaggtg ggataaggca ctttggttct ccaggagtac tttcctctaa ctgccaccgt 180
ttttaagctt ctcagcagtg tttttcacac cctgctttcc gtgtgcatgt cttgtcactt 240
atgattaaac taaacacaag tttttccatt tttaatgctg ctatgcttct atacctctgg 300
taagtttgat catcgtgttc tgggttggga gggtgagagt tcttgtgatt ccctttgtac 360
ttccctgaca ctaacacatg ccctgcacac ccatcatgtt gcatcagtgt ccatggtggt 420
ggtataaaat t 431

<210> 1627
<211> 1011
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (863)
<223> n equals a,t,g, or c

<400> 1627
gattcaaaat gcatggccca gctgctcctc atattgaagt tgcgaccatg ggatttggca 60
acattgagct ccggctctgg gcattgctct cacagctgag agtgacgccc aggctctggc 120

agcccagact tgtcatcctg taaatgaaca atccccagtc cccgggcctc attttattca 180
cttggctgag ctgcctgttt gctttccgtt ctgtgctcgc cagctcacta agcaagagga 240
tccgtgcctg actgcgtgga gaagctgtag aggaaatggc caccctgact gtcccagcac 300
ctmccggggt ggcccggggc ctgggscctg agcagaactg tgataaaggg aagcagggaa 360
gcagtgcgag arccctgacc aggtgcarga gcctgattcc gaatccamct ctgccatggg 420
cagattgcat gatgccatca gagccctcta amctctggcc ttcagttgtc acacctgtaa 480
aatggggaaa tattctagag aagtggstca aaacctgatc atccatcagc ytccccccaa 540
gaacatgggg acagtgcaca tggcaaggcc ccatgcccag agtttctgat tccacagttt 600
gggatgaagc ctaagaatgc gcatttccaa caaggcttct ggtgaggctg atggcccagg 660
gacctcactt tgggaagctc tgtagtaaat ccagtttctc agccagtctg ctctgtagag 720
ctcctgagac agactctttc cctaggcctc ccctgaggtt cttacttaag caagtctcca 780
tttttcaaaa gctctgccag gtaactctat atggcactag ggctgagagg cacttggtgg 840
atgtttctaa gatcccacgt agntctcaca tgccaggatg ccatgatttt gaagcagagt 900
gcctcctgcc ttgccaaggc tgacagcaca cacagggcaa aacgccatcg tcacatattg 960
gaatttcact ctttgaaaac ctggtaatcg tgtgtcccat ttcagctcga g 1011

<210> 1628
<211> 569
<212> DNA
<213> Homo sapiens

<400> 1628
attcggcacg aggacttatt kgggctaatc agcctaaaga ggatgatgca tataatatgc 60
ataggagaga tctctctgtc tgtgtctgtc tctgtctctg tccctctctc tccctttctc 120
tttgcaaaac acgcattcac tgttgccgtg aactgccaca gatagctcca tagtgaaact 180
gaggctgaaa agggtagagt aggggcacaa agtgagccgt ggctcttcat ggcatcactc 240
agactcagct gccttgagcc agctccaccc ccgactccca ggtattcaac ataataaatt 300
tggtggtgtt gttttgtttt gttttgtttt tgtttttgtt tgctttttt tgagatgtag 360
tctcactctg tagcccaagc tggagtgcag tggcatgatt cggctcactg caaccttcac 420
ctcccaggtt caagcgattc tcctgcctca gcctcctgag tagctgggac tacaggtgca 480
tgctaccacg cccagctaat ttttgtgctt ttagtggaga cacggtttca ccatgttggc 540
caggctggtc tccaactcct gggctcgag 569

<210> 1629
<211> 1223
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (243)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1218)
<223> n equals a,t,g, or c

<400> 1629
ggcagaggcc agactttgga cctcccactc agaggtttct gtctccatca ttctgacctg 60
ctgcttgtcc acatgtgggc cccaactcca cttatccacc taggacttgg taaaatgcaa 120
atctgagtat gctgcttctt tactgaacac ccttcaatgg tttgccaagt ctttagcatg 180
tggcacatga tgtccttcac accctgctcc ctgccttgtt ctttggcctt gtgcctccct 240
atnggccccg cctgcctgcc cccggtcccc ctccccctca cctccaacat ccaactgaaa 300
gccaaggctg gtttgctcct gagacaaagg ctctgctcca ttgcgtcagt tcacctccct 360
gccctgctgg tgtcagcaag gtaacaatca agctggtgac cccaccagcc tcatctccca 420
gccggtcctg ccaaaccttc ttgacattgc cagtttgtga ccgtgaaggc cacatggtcc 480
tccaaatcst ttctccccaa gaaaaggtgc aaaattgaag cacacatgta gggggaccct 540
gggagttcaa ggagcccagg ttagaaatcc ttaaacccag cctgcttcac acaggggctg 600
gcttgatgac cgtgagtgct gccttcacct tttccccact gagctaactc ctaactcctc 660
acccgtgaca cggctcaaga tcgcttctct tagaaggaag tcccgatccg ctgctacccc 720

acatggcccc caagctggat tggtgcctgc gttcgttccc agcgctgccg tgaaaagtga 780
ctacaaaggg agcagctgga tacaacaggg atttactcct tcccagttct ggaggccaga 840
aatccaggtg tcaggaccgt gctccctctg aaggccctag gggaggaccc ttccttgccc 900
ttctcagtgt cccgtggtgt ctggcatcct ctgtgtccct cggcttggga cagcccctct 960
ctaatctctg cctccacctg cacatggcca tcttccctga atgtgcctcc aaaactctct 1020
cctttataaa gacaccagtc attggacata agccccacct tactccagtg tgacctcatc 1080
ttaaatccat gacatctgca aaggtcctta tccaaatggc ccttatccca ataaggtcac 1140
attcacaggg atcaggggtt aggcctggaa cgtatctttt tcagaacact attcagccag 1200
cccacaccag cgcccccnac agg 1223

<210> 1630
<211> 1626
<212> DNA
<213> Homo sapiens

<400> 1630
aattcggcac gagacaacac caacatatct gcagcccata gtgcaaatgt ccatgtatgt 60
cagattaaat gttacttatt atttaggtct gtttttaaa ttaaagtttg cacttgcttt 120
gcagccagcc aggcagggag tcattaccta gctctttcac ttactcatgt gccaatgtga 180
atgtgttact tcacttctcc tgcctcttgt ctacagtggg caggaggtaa gcctcacggt 240
gtgactgtga agccaagtga aatctcacac ctacctcaga ggccttttc ccactctcct 300
tttctgactc ttttaatatt ttctcaatta tttatagtaa taataataat acaatgccaa 360
ttgttcattc attcatccat ttaaatccca aaggaattta aaagaagagt aacatttaac 420
ctgacaaaga caaaaggagg aagcttttta ggtaatatta attatcataa agcaacaata 480
ataacaacaa taataatagc aagctcatat aagcaagaag caatagtcag tgtgtcatgt 540
tttgggggaa ttaagaattt caaatagttc attttaacac cacctttctc attccttatt 600
ctcctacccc actggcctga tcacttctag aaacttccag attctttacc tcttcatgac 660
atttataatt gctgttcttt ttttggaggt acaatataca tataaaattt accatcttta 720
tcatttttag gtgtacagtt cagtggtaat atatctaaat ttatattctt tatttttctg 780
ttctttatgt ctaggacatt tcaatcctca acacttcaca ttgctaaatc ctcatctctc 840
aagcctcagc ttaaatatta ccttttcaga gagaccttca cagatgatgt aatataaatc 900
actctcccct accattattc tcaaagacag aaatctattt tctttatttt actaatcaca 960
ggctgaactt attttgctga ctttattatc tggctctcct acttgacagt aagttcaacg 1020
agggccagga caaagtctgt accccagcag ttagttagcc tgggttccat acatatcatt 1080
tactcaatag ctatttatta actggataaa tggaaatgaa tgcaagtgat agggatagat 1140
acaggaagag aattagataa ctaaaccaag gtcaggaaat ggcatggcta aacgtttgca 1200
ctaaatcttt aaaactctgg aaaaatcctg gaaggatctc agtggacaaa tgcctccaat 1260
acgtttctat taaggaaaat cactctcata agaatgtagg ggaattgact ggaatgagag 1320
aactgaggga gggagatcca ttaagggtct gactgcagta attcagatga gaaatactgc 1380
aaaagcttag gctaagttag tggctataaa gatggaataa atagagtcaa gggttattac 1440
aattgaacag aatgtggtgt ctgactagaa ataaaaagac aatctagaga agtccaaaat 1500
gacttataga tttctgacct gggcaagtga atagattaga aaacaagatt tgtagggaaa 1560
gatgaaaaac agttattgga tattttgaat ttgatgcaat tattggatat gtttcagtct 1620
ggagct 1626

<210> 1631
<211> 1347
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (830)
<223> n equals a,t,g, or c

<400> 1631
tctcccctac actcctctcc agccacagga gttccttttra attcttggaa catgccccat 60
tcccacttgc ctttrggact cactcacgct gtccgtctgc ctggaacacg cttcctcctt 120
ctgcttgctt ggctcagtct tacatatcct ccagctctca gcttaaatat cagttcctgt 180
agggaagcct tttctgtcac ccagtctagg attgcactca ttatatgctc ccaaatatag 240
tgctcccttc atggtgcttg gtatgcctag tgcaattctc gtttactttc ctgagtccat 300

ctcattctcc aagaattgtc accactggtc tttatactcc tggaaggcat gaacccaatt 360
tattgtcttg ctctctgctg catctctgat agccagccca atgccttgcc ataattgttg 420
aaacaaaatg catgttwatc tattgaaaaa aaaatttttt tttgagawgg agtttcactc 480
ttgttgccca ggccagagtg caakggtgcc atctcggctc accacaamct ycgcttccca 540
ggttcaaggg attctcctgc ctcagccccc tgagtagctg ggattacagg catgtgccac 600
cacacccagc taattttgta tttttagtag agacgggatt tcaccatgtt ggtcaggctg 660
gtcttgaact cccaacctca ggtgatcctc ctgcctcggs ctcccaaagt gctgagatta 720
caggcgtgag ccacctcgcc cagcctattg aaaatttgar ttggagaata aaaggatttt 780
ggaataaaaa ttaaaacaaa gcttcccatc atwggayccs ccttatgtan cttgtacctg 840
tggcaaaata cggarttgtc ttctatcart tcttctgctg aagcccaggg aaarartgtw 900
tgtaaaaatg tctccctgtg gctgagagcc agctttatct ttttatccta gtctgggcta 960
tcatttttat ttttattttt atttttatta tattagagat ggagtttcac tacgttaatg 1020
ttgtccaggt tggcctcgaa cccctggctc aagtaatcct cctgcctcag cctcctgagt 1080
agctgggact acagggatgt gccaccacac ccggcttatc atttctaaca tgaaaattta 1140
aaagttaact ttaaatttaa tgcgttaaag taatctaacc cagtaacata aaaatgtgaa 1200
gttgggctgg gcacagtggc ttatgcctgc aatcccagca ctttggaagg ctgaggcgag 1260
cagatagctt gagcctggca gttcaagacc agcctgagca acatggcaaa accctgtctc 1320
taccaaaaaa aaaaaaaaaa aactcga 1347

<210> 1632
<211> 741
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (86)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (92)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (640)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (673)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (696)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (712)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (713)
<223> n equals a,t,g, or c

<400> 1632
ggaaacagct atgaccatga ttacgccaag ctcgaaatta accctcacta aagggaacaa 60

aagctggagc tccaccgcgg tggcgnccgc tntagaacta gtggatcccc cgggctgcag 120
gaattcggca cgagtccata cggggagcac ccagcaaagg gccccgcctc ccactctgct 180
ctgtggtggc catggggatg ataatttggg taaacccaac tggcttctgg gagagcaaga 240
aaggatgtga ggggtagggg atagaacagc ccggggcaga caaagaacct cagcccaggc 300
aggtagggaa cttgagacct ccaaggtctg atttcccctc acccccaccg gagggctcca 360
ttttgtactc tctaggctgt tggcaagaat gcggaccaga ctctggtgat aactgctctg 420
agcaccaggc agctcttggt tctccctgct gatgggggggc tcggtggcac acttaatcct 480
ggaaccatca ctcatccacg agccacttgt tgagcccctg gcactctctc ttgtcccagc 540
atcactgctg accctgtcag cctctgagcc cttgctcgaa ggggggcccg gtaaccaatt 600
cgccctatag tgagtcgtat tacaattcac tggccgtcgn ttttacaacg tcgtgactgg 660
gaaaacctgg ggntacccaa tttaatgctt gcaganattc ccctttgca anntgggtta 720
taacgaaaag gccgcaccga t 741

<210> 1633
<211> 962
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (294)
<223> n equals a,t,g, or c

<400> 1633
ggcacgaggg cagactcagg gcaaacaacg ggaaaataaa aactcaactg gtgaagtcag 60
acaggctaag ttgagctaca taaaggggaa ctgagccaga caagggagga aagagaggtg 120
gaggaacctc acaggttggt tgtcgtggaa agtttttgtt ctggctgtga aagtaagaag 180
gaacataaga tttcaggaag cacctgccat ctggatgaag gagattgaga atggcagcma 240
ttgggartaa tggatttaa agatatcttg gtgtgcatta aatgcactct tcanccctg 300
ggctttttct ttagagactg agtatagatt tgaattgctt tagattatat attttttgaa 360
tgacagctgt ttctttgaat gtgactccac accaagattk gaccacaaag ctgcctggca 420
tttacagaag aagccaaata taacatggat caatggtaaa ccactcttga taaatacaga 480
gcgggcatct cagaracccc gttagcttca cccttgtgtc ctgagatgct ggctctgacc 540
ctgggggctc tgtgaagtcc agtctgaaat caccctctag atccacccac agtcccttcc 600
aactctaaaa gtcattgtgc aatgccagcc ttgcctcact tttagtcaca gacactgacc 660
acagggaaat gtagactctt tctgattaca catctgagtt gccacatttt ggaaaagatg 720
cccttggcat ggagcctcta ccggctctgg gccatggggt gtggttttgt gaatgggacc 780
cactgtggtg ccatggagtc caggtaacat gacccagttc tctgccttgc ctcagagcgg 840
acgtctagtt accaccgcca gcctctgcaa gacttctctg attacccaat attttcctct 900
tgtctgcaga catgacttct cataaatccc tttgctgtat ccccttgga acagggctcg 960
ag 962

<210> 1634
<211> 943
<212> DNA
<213> Homo sapiens

<400> 1634
gtgtattttg ataactcagt ttcccacctt ttttctccaa tcagagtccc gcaagagctt 60
tatttctatg ctgcaatttc aaatgaccta caaattctta gaagtgtaaa gaactaaaaa 120
tatgtaacca actaaaattg ggttgtggga ggctgcagaa agcagagaga gactaattca 180
ccattgctca aaataaagtg tcaatactgt ctaaagaatg tactctccaa acttcacatc 240
aaacttttt gggatgcagt gcgatgtggt acagagagta acaggttttg gagtcagatg 300
gctctgaatt ggttgacact cttactaact tggacattcg aaagttatgt agtcacttat 360
tttcctcatc tgtagagaaa ggctacactg gtgaaatgag atcatgaagc taaaatgccc 420
aaaggtaggc ctggggcaca gttggttatc attaataata gttattatca gttgtagata 480
cttaggagga ctaaaataaa tatggaaccc aatatcctag tagatgagta agagagggtt 540
cgcagacctc gtgggtgtga acgtarggag tgttgtatgg agtcagacca accaaacaaa 600
gggagttggc atttgcggtc actcagattt tatgcagcca ggttactgct ggctctggat 660
ggttgacaca cagtgtgatg tttcactgca tttgtatcaa gataatggcg caaccatccc 720
cccaaaatcc agcattattc ataatcgcat ctttcatcat caatttgggg aaagtctttg 780

gtacacagtc aattcctggg gatgcaaatg atgatttctt ccttttttt ttgagacgga 840
gttttgctct tgttgcccag gctggagtgc agtggcacta tatcggctcc ccacaacctc 900
cgcctctggg gttcaagcga ttctcctgcc tcagtctctc gag 943

<210> 1635
<211> 1120
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (68)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (133)
<223> n equals a,t,g, or c

<400> 1635
cttgctttgg cctcccaggc atgagccacc atgccaagct gttttctctg ttttatcctg 60
gaatctcnat gggcctcagc ttagcaattg tgagggtggg tatgcaggag gtggggtgtg 120
aggaggggct ggnaagcaac ctttagaagc aggtctgaag ggacttgtca ggggttcccc 180
aggtaggaaa taggggtcac ctgtgccccc agcccacctg ccattgaggt gctagccccc 240
agaggctgtt atctttgtat agatgctggg ggcatcagga cagcctgaaa cactgtttcc 300
aggagtacag catagaaaat aagtctttcc atccaaattg gaaatgaaaa ggccctggta 360
cttgacagat ctactccagt gacttggaac actgtgtggg agacttgtcc ttggcagcag 420
tagaaatggg gcggctctga actttctctc tgtaacccca ggcacatgtg tgcagacttg 480
ccaggccctg tgggcmaagc ggatgtagga cctggctctt atccgggcat ttggtaactc 540
gaggaaaatg gacttttcct cttctgctgc ttttgttttt acctttgggg ccttatcatt 600
tgtggcatct gccctctagg acctatagct tttgggactg ctggtagaca cctattctac 660
tagcagagtt ttttccccca aggcaggtgt tttgatgagg gcttgggtca cagcctcggg 720
actcatggct gctctgtatc ttccatcctg ctggcctgga ccacacggtt ccatgacttt 780
gccagattcc ttggcaggtt tcattaagag agatgcacag gccggacgtg gttgctcaca 840
cctgtaatcc cagcactttg ggaggctgaa gcaatcagat ctcttgagct caggagttcg 900
agaccagcct gggcaacatg gcaaaacccc atctctacaa aaaatacaaa aattagccca 960
cgtggtggca cacacccgtg gtcccagcta cttgggaggc tgaggtaggg gttgagccct 1020
aggggttgag gctgcaggaa gccatgatag ttcccctgca cacttcagcc tgggtgacag 1080
agcaagaccc tgtctcaaaa aaaaaaaaaa aaaactcgag 1120

<210> 1636
<211> 402
<212> DNA
<213> Homo sapiens

<400> 1636
ggcacgagca tttgcacaca cagccacaaa cttgcacaag cagcacttgt acactgacac 60
atatccgttt gtgcctatac agtgcacact tacacatttg cacacagctg tgcttgctca 120
cacatttgca cacacccacc tacacacttg cacacatact acacacttga gcgtgcagca 180
cacataccta tgtgcataca tgcacatttg cacatgcaca cagcagtggc acacacttct 240
ctatcactct ccctagtcac tgttctcccc tgtgattccc acccctctga ccgcccctgc 300
tcacttgctg ccccctccac tggaaggggc ctggcctggt gccctgtctc tgtctgtctc 360
caccgtgcag ggaggtttca caaggactgg ctgatgtctc gc 402

<210> 1637
<211> 214
<212> DNA
<213> Homo sapiens

<400> 1637
ggcacgagcg gcacgagtgt atgtgtccct ccaaaattca tctgttgaaa cctaagaccc 60

aatgtgacag ttttaagatg tgggacctttt tgggaagtga taagtcccga tggctctgcc 120
cacatgaatg tattagtgag tgcccttgta acagggctgg agagtactat ctacgtaggc 180
cctctttgcc ttttttttttt ttttttttcct ttct 214

<210> 1638
<211> 570
<212> DNA
<213> Homo sapiens

<400> 1638
ggcacgaggt cgcatgggca gccctggggc tctgttagct ctcctcccgt cccttctccc 60
tttttcctgg ggcctgggtc cctggccact actgtcctca cccaagacgt aggcggccac 120
caacttttgt cccagggaga cgtgcaggac ttgaggcagc tggctgcaga gttcgtccgg 180
gagtgggagc agcaggaagg ccacagacac aatccccgtc agcaagaaga ggaggaagga 240
gctggtggcc agttgctggc gggggtctga gaaacaagac tcatcagatg ctgcagcccc 300
cactcctgcc cagcccaggt cctccaggga gaagcctgaa caaggaagat gtatctactt 360
ttttttttttt aattatcttt tatttttttgt agagatggag tcatcactac gttgtccagg 420
ctggtctgga actcttggcc tcaggtgatc ctcctgcctt agcttcctaa gtagctggga 480
ctatgggttc atgctaccat gcctggctaa tttttaagtt gtttgtagat ggtcttgcta 540
tgttgtccaa gctgatcttg aactcctggc 570

<210> 1639
<211> 1811
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1024)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1127)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1160)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1728)
<223> n equals a,t,g, or c

<400> 1639
ggcanagttt tctgctaatt ctaaaataca tgtcatatct cagtctgatt ctaatgagtg 60
ctttgtctct tcaggctgtg ttttttcttg ccttttagtg tgccttgcaa ttttttgttg 120
aaagttgggc atgttgtaat tggttataga aatttaagta actaggcctc tagtttaagg 180
atttatgttc atctgggtag gagttagtct ttgtttaatg tttactgtag ctatagatgc 240
cagagacttc cgcttcctct catgtcctaa tttttatctc ccttttgact tctagcttct 300
ctaagtattc ctcatcagaa agagtttatt tcttgcattt cttttatcyg taatccatta 360
tcatgctccc ggaaccctgt aggtctggag gtaaggcgtg agaacattct ataatattcc 420
agttcaattg taatctttta gtagtctggg tctttgsctg gtgaccttca caaacattta 480
ttctttttttt ttttttgaga caaagtctca ccatgttgcc cagcctggag tgcaatggtg 540

cgacctcagc tcactgcaac ctccgcctcc tggttcaaat gattctcctg cctcagcctc 600
atgagtagct gggatttcag gcgcacacta tagtcaccca cttaggtgag ttaagaaggt 660
taaagggggc tgaagtgaga ggaatctcct ccctcacatc cgttggacaa ggtcctgata 720
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tcagactcga g 1811

<210> 1640
<211> 462
<212> DNA
<213> Homo sapiens

<400> 1640
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agttaaaaat aaacttagag caaatgattc tcttttgatt ccctacccaa tccacactct 120
tccctgtccc ctctatgtca ttcctggcag gtggacatga agctccaggt aagaggcaag 180
catccgtgtt caaatgacca ttcccagttt gaatgacttt gtttgcagga tcttacttct 240
gcttaactaa atttgtaccc caccctctat gcacttaaaa tccctttaaa attcgttgat 300
ccttagttac ctccctggag ctccttctat ttatacacaa taactggttt ccaaatattg 360
aaaatcaact cttgtagccc ctctagtttt tgtttactta cttgcttcat tccccacggg 420
ctgaacactc cagttccctg gacttttctc atatgatatg ta 462

<210> 1641
<211> 534
<212> DNA
<213> Homo sapiens

<400> 1641
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ctgctagtgg tgttgattac ttatttaata tttggcttac tggaaaagac gtccttaatt 120
ttatctttca gtgtttcctg aatgactcca ttccccttac tctagtaatt agcaagcatt 180
tttcttgaac acagaataca cacattcaca cacttcagtt tttaaagcac agttaggcaa 240
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tgaaggtttg gtataatgta gaaaactggc ggacagctgt tacttctcca gatggaagtt 480
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<210> 1642
<211> 1011
<212> DNA
<213> Homo sapiens

<220>
<221> SITE

PCT/US2004/004460

<222> (383)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (925)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (948)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (976)
<223> n equals a,t,g, or c

<400> 1642
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tgatcctcac acacagtggg ctgaagttaa aaaaagcaga gtcatcagtg gttcacaatt 180
tacattataa ttgtaattta ttatttgcat gtatagttat attagtttat gctttgtttg 240
atatttcatg tttaccatat ctttatttga aatatagtaa atatttattt ctatacatat 300
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<210> 1643
<211> 1665
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1004)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1010)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1122)
<223> n equals a,t,g, or c

<400> 1643
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gttgcaaaca cttctagcct tattattcac atacctctca tgaagtttct tggttcttga 120
ctctttctat tgctaccggt tacaacttat gaaaatatta catattgaca tggcatgagt 180

ttttactatc gttaagccca aaagctttct cccgctgctt caactctaaa gaatgatcac 240
cggaaaattc tgcattgact tcccaggtaa tatcttacct cagagttctt tatgcctctg 300
cactggtggt ggccattcac actttgggca ggttcagggt agctgcaagg tcaaagcaca 360
gtatctggaa cgtaagtgat tcagtatccg tctgttgaat gaaggacact tttaagaaay 420
tttctytctt ctagactaaa kacagagagm gaggaagatg aaaagaaact acaggctcta 480
tctgggttat gctaacttca aaaatagaag ggaccagtgt aactgggtaa cacagaaagg 540
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ctctcaggat acccatatag ttcgcaaagt gttgttacat aggaaattct aactcttctc 1560
agagttttcc aatctataaa gcagctaatt tgtacaggct acattctgaa gctaagaaaa 1620
cattttcaca caataaagaa gagtaaagtc tggaatgatc tcgag 1665

<210> 1644
<211> 963
<212> DNA
<213> Homo sapiens

<400> 1644
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agagggcaga tggccaggag cagagccaga tggggagcaa cagccttccc tctgccagga 120
cagggagaga cctggctgcc tcacagtgag aggtctggca gccagggagg gcactgggga 180
caagggccca gccgggcacc ctacggagca catgaccccc acctgtccat ggagcacacg 240
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gggaacagag agcagcttgg tgttggggcg gcatcagcgg gtggagctgg agccgctcgt 960
gcc 963

<210> 1645
<211> 1573
<212> DNA
<213> Homo sapiens

<400> 1645
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tttactttga taagtctttc aaggggtttg cagttccccc ataatcgttt tgataggaga 120
aagattttaa attgggaagc tcacagaggc aagaggacag cgtttctcag aattccagtt 180
tgaccctccc ctacccttct tccttgccac aggccaagga gcgggagctg gaactgaaga 240
acacctggtc agagaacaag ctcagccgcc gtcagaccca agccaaatat ggattctagg 300

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gccctgtccc tggatttgtg tttaccttgt gtaaagcacc ttccaaatga tcttgagctg 720
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ccggggccgg gtatagtggc tcatgcctgt aatcccagca ctttggcagg ccaaggccag 1560
ggtaggtgga tca 1573

<210> 1646
<211> 1361
<212> DNA
<213> Homo sapiens

<400> 1646
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gaccacgtga attgctttga ccactggagc attcacaaac atggcacaac ggaggcttga 420
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actttctagg agggaaatag aaaataagca gaataaataa gagaaatata tggtgtacca 1320
gataatgatg tgtgctagga attaaaaaaa aaaaaaaaaa a 1361

<210> 1647
<211> 1043
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (927)

<223> n equals a,t,g, or c

<400> 1647
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ggaaacagtt ccctgactga tataaacctt ccctaatgac gaaggtggtt tgcggttcct 180
aatctttaca aacaatgtgg tgtatgctgg acatcacttt cctcctaggg ctctggaatt 240
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agaagttaag cacatcctac aggactcccc tgggagacgg ctcctggtgc ctgagccctg 420
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acaccccagc taatgtttaa aatgtttcat ggagacagga tctcgctatg ttgtccaggc 1020
tggtcttgaa ctcctggcct cga 1043

<210> 1648
<211> 1113
<212> DNA
<213> Homo sapiens

<400> 1648
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tttttacacc atgcccccac ccccatcccc ccacccctac tctcgcgctt cccaacgcca 180
ccaagattgt cttgataaga actccaggtt ctcccacgaa ccgttctgat actattaatt 240
aaaagcagtg gcctcaggca gagggctcag gaagtaggga gggcgcgggc ccgcgcgcac 300
aacttcaggg aaaaggtctt tatgatttca gcatccagag accctatttc tgaggacaac 360
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gcacagattg tcggagctct aaagctgccg act 1113

<210> 1649
<211> 495
<212> DNA
<213> Homo sapiens

<400> 1649
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aatgcaatct ggtggctggc tctcaaaatg gtactgtgct gtagctgctt agggctcggg 180
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ttgcaggagt cttcaatgga aatatggacc actgggggtc tctcatcttt ctccacattg 360
agaaacctct ctgcgctccc agctaatcct ggctgaccac gatgcctggc ttcctgtcct 420

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aaaaaaaaaa aaaaa 495

<210> 1650
<211> 1099
<212> DNA
<213> Homo sapiens

<400> 1650
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gtctgaaaac tgaggtgatc acttgaattc ctatatgtga aatgctgtgc tccctgtcac 120
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cttgtcagaa ggctgaggca cgagaatagc ttgaacccag gaggcagagg ttgtggtgag 1020
cagagatcgc accactgcac tccagcctgg gcgacagtgg gagactccgt ctcaaaaaaa 1080
aaaaaaaaaa aaaaaaaaa 1099

<210> 1651
<211> 670
<212> DNA
<213> Homo sapiens

<400> 1651
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tgtacttgac tttgttcttt tctctgctga agaaatgcca tttaacaaat tcaattactt 120
cataagatca aacacagcca ttcatcctat cttccctccc ccaccaaagg aatgcattct 180
ctttgaaagc tccagtggaa ccaaggaaaa agtttacacc cttctaagac tacccccggc 240
ctactcagca aggtcaacac ctgggcctgg catgcagacc attcttcaat gtgactcagc 300
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cacactgctt ttacatttcc attcggaaag gatgggcctt tacatgccca tcccctctgg 420
gagaaccatc ccataacgtc atgcagtgtg aaatgccaca tcatccttac gtcctgtctc 480
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cttttgaact acctcttccc cttgtgcgtg tctcttctcg tattctgcct actgcatttc 600
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gtacaggctc 670

<210> 1652
<211> 1360
<212> DNA
<213> Homo sapiens

<400> 1652
gctcgtgccg ccagtgctta cacatagacg gtgcattctc tggaattcac cctgggtcag 60
agccttctca cctcccagca caagccagta gttaagcctc agtgtcccag ttcggtgcac 120
tgggcaggag atgggtctcc caagaccact cagccatgtg gttccttcag ctctcagcac 180
agccgagtcc aggctgcagg ctctccmtcr caagccaact acagagtgac acatgttctc 240
tacacatgcc gtgactgawt atgttgtgtt ctgaaaatat ttgggagtta atttgtgttt 300
tgtgcctagt gcttcmygga ccggtgctca ttgcatcctt acagccatct acaagggtgt 360
caccattatt tgtattttat tagacttaga gaggtgaagt gacttgctca aaataatacg 420

gttagcaaat gactgaaccc cgacccaaca gggagaatgt gggaagaaat caacaaagct 480
tatttaacag gtatctgcca agggttggaa aaaataagat ttattgytgc tccactgagc 540
agaacacagc ccatcagagg ttactgcacc ttcaacgaca tgtgcttttg actgacccat 600
caaaacactg gtggcaagag cactaaataa gttgcctatc atacttaatc tttccaggat 660
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agcacgattc ctccaccatc cgcagtccac tcgcacaaat accctcagtg aaacacttct 840
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aaaaatctcc tttaaaaagg aaataaatat actagtttya gacagaaaca acttcaaagg 1260
caatcagaaa attcagtgga attttaaaga gggartctca ctcaaagaat tctctaaaat 1320
tgcctaaact taaaagcatt atttttctcg agggggccgg 1360

<210> 1653
<211> 840
<212> DNA
<213> Homo sapiens

<400> 1653
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gtgcctgttt gcctgcgtgc gtatgtacac gtttgcctgt gtgcacgtct gcacgtgtgt 120
ttgcctgtgt gcatatttgt ctgtgtgtgt gcacatctgc atgtacatgg gtcctgtcat 180
tgctgcccgt ctcctcccga gagctttctc tgcacgttgg ccctgccttt gcagcttctg 240
ccagccccgt ggcgccgagt ggccttcttc ccagccccag tgggcgcagt ggggtgggcc 300
gtcctctgag ggcacccgag ctgctgcatc tcccgtcttc ccgcatgcag tcctcagggc 360
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cccttggccc tgcgtccgta gccagagctt ggagggcttt gtccaccagg cctgggaccc 480
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ggtggcccgg gtggcggggt gaattcctgg ggagagcctg ccccctggcg gccacctggg 600
agaatgcagg gaacatggct gagcagcgtc ggctgtggag ggagggcagg ggcaggggtc 660
agggctgcag gcgtgtccct ggggctgata gcggtgggat ggggtctggc cagtggaggg 720
tccatggggt ctcctagcaa acgcagtggc gctccttaaa tgacggtgcc aggcggggct 780
gttctccttg gttggcctct gtgtcccttc aggctcccaa ggcccctcct cacatcctcc 840

<210> 1654
<211> 1590
<212> DNA
<213> Homo sapiens

<400> 1654
gatttttgtt tgtttgtctc ttttgaccac ctctataact cttatggata ttcatcaaat 60
tctgtatcaa agaatttaag atttagtcag taaaatatag ctatgatatg acacagcacg 120
attctgtgta aagccagcaa actaaccagc agcctcagaa attttatggt tctttctatt 180
gacagtctaa ggtcctccct ggttaccatt tccccaaaag aacaatgagg aatttggagg 240
ttatgcattc tcgcagtctg gggatctgtg atagtcactc tgttaggtgt ttttgagcca 300
ccaggttcct catagcagct ttcaaatctt tgttcctcgg gctgtagatg atggggttga 360
gaatgggggt caccactcca tagaaaatgg agatgagttt gtctgcaagg tcctgtttgt 420
ctgctcccat tgggtcctta gacttgggct tcccatacat gaagaggatc atcccataga 480
agacgatcac gacagtgagg tgggcagagc aggtggagaa ggccttttтc ctcccctcag 540
ctgaggggat tctcaggatg gtggcaatga tgaagacata tgagacaaaa ataaacagga 600
ctgggagtgc aaggaagatc atgttggtca caaccatgct gatcacgttg atgcagatgt 660
cagcacaggc caactttaga actgccagga tctcacaggt gaagtgattg atgacattgt 720
ccccacagaa gggcagtcac attgctaggg atatctgtac tacagagttg gtgataccag 780
ctgcccagga gccaacagcc atgggcatgt aggcagcctt gctcatgacc acagggtacc 840
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ctgtggctcc catggcaaag gagaggaaca tctgtactgc acaggctgag aaggagatgg 960
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ggagaggttc cccaggaaga agtacatggg tgtgtgcagg cgggagtcaa ggatggtcac 1080
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tcaacctcag catcctctta ctccaaaagt acctggaagg ccaggcacaa atccttgccc 1320
tgctgagcaa ctggagaata gcgctgatga tttgttcatc tctatggggt tctaggaaca 1380
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ctaactgtct tgcagatgac cattagacaa actggaaaaa atacataaaa cattggagaa 1500
gtaataagac aatgaggaac atagggttat gactctgggg aaaaacaagg acctagagat 1560
gtaagtctag cacttgtggc tgtgattcaa 1590

<210> 1655
<211> 177
<212> DNA
<213> Homo sapiens

<400> 1655
ggcacgagtg ggctgtgtac gtgtttgtgc catttttatg actgggaaaa tgacagtgat 60
gatgaggatt cctagttcta ttgttactaa taccgctatg gagtctgaag tgccaggttt 120
taaaacccag gtgtatcgct cattagctgt gtgaccttga gcaagatctt caacctc 177

<210> 1656
<211> 1014
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (930)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (949)
<223> n equals a,t,g, or c

<400> 1656
agggataacc tgtcatctac atttgaaaat taatgaacaa ttctcgttac atagataata 60
tttttcagtg acagtcgtat ttttttctgt gggagggtgc acatttatat tcatgaaatt 120
ttagtttcca gctttgaact ggcacccttg ttaaaaattc tgatttttt ttttttttaa 180
actctgggga ttttacttaa caggttctga aaggcttgga ggctataaca ttctcacatt 240
ggaaattcct tactaggaat tacttagttt gaacttagaa tgatgatgaa cttttgggac 300
ttaaatatac tataactttt gtcactagga tcaggaatat tcagagtgtg aagtcaagtg 360
agtggtgtaa tcaaagagtc tgaaaagaac catgagacat catgtagcag tcttgccttt 420
aggcagtaat gtattaaagc tactttgctt attctttgaa aggaacatct ctagagaagt 480
tccaaagtca tccttggtga tatctttcaa tgatgcagaa atcttagtca agaaattagg 540
aagtcttccc taaatataca ttctgaatcc ttcctgatgt gatagtttat ttgccccttt 600
tcatgctctt actagcaata agagtaagcc gctcaaatgt cactcatctt ttcatatctc 660
tgaataatgt gtttcctttc ttttttaatt taaaggatgt tcactaaaca aagttttggg 720
gaacaccaga aaagtagaaa gaacaaaaaa gataataccc actggtattg cactatccaa 780
atatgtaatc actgctaaca attcctgtgc atttttaaaa cttacaggcg cgagcactgc 840
gcctggccac attttcatat tactatggta tcctttctca aggactcatg gtaccctgtc 900
cacttttatc ttattaaagg gaaattgtgn taatataatg gacgtctgnt tttgcatgtt 960
gaagtggtca catatgcctg taatgtggtg ctagtgtttc tgtcccaaac agtg 1014

<210> 1657
<211> 1270
<212> DNA
<213> Homo sapiens

<220>

EP 2 336 358 A2

<221> SITE
<222> (155)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (752)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (767)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (835)
<223> n equals a,t,g, or c

<400> 1657
ggcacgagaa aaatcagaaa agaaaattaa aattccccac caatgataac agccattggt 60
atttttacat gcatccttct gagttttatt agtcccatgt atatataaag aaaagttgga 120
atgtacttta cagccagctt tatatgctgc ttttntctct agctcttata aatgcttatt 180
tataagcatt ttctcaacat aaattacttt tgaaggtttc atttgatggc cacgatatgc 240
catcacaatt atttttcagt cataatttat gtagctgatc ttcattgtta cacacatgga 300
tgttccccac catgtggctg ccataaatga ttctccgatg accaactcta cacatagatc 360
cttgtcttca tctctgatta tttccttatg atagatttct ggtctcatca ggtcaaagga 420
tatgggcatt tttaaggctt tgatatgtgt tatgaaattg ccctcctgca aaggtggcct 480
gggttccact ccccatgaag gctcaacagg tttctgaggc ctccctcaca cctccttcag 540
catcttctct ctcactttcc tgcctcagcc tcttctccct gggttccctt gtgaaacaca 600
atagtaaagg attatattat caaatattta attatgtatg tatctgaaaa tattttaaaa 660
gtcaacataa ttactctatt tccattagtt tgatttgcag caaattatgc atttagtgtg 720
aagttggagg tgcyttgctg gttggagygc anatagcgkt tggctgncta caatggggcg 780
ggcgctggtg acaacagctc aggctggtaa agccgtatca ggtccttgca gaggnagggc 840
ttcctcccag ctggggagcc tcagtacctt ggagctctga aatcacacca acaccacaaa 900
tgaccctggg gactgggtgt cttagttatc tattcttgca taacaaacaa ccccaaaact 960
tgtggttgct gaaaacaata aatatttact gtctcacagc ttctgtggga gctctccatc 1020
cgtggccagc agctcaggct caggatctcc caagaagctg caatcaaggt ggccccatgg 1080
ccgcagtcaa ctcaggcttg actcagggag aaagtatctg cctccaacct tactcacacg 1140
atctctccaa agggctgctt caggacgtga cagctggctt ctccctgagc agacaattcc 1200
agagaagcac tcaggtcggc acgcaaggtt ttcccatcct tttggcatag aagttagagc 1260
ccagctcgag 1270

<210> 1658
<211> 1100
<212> DNA
<213> Homo sapiens

<400> 1658
ggcacgagat tacataaaaa caaacaattc tcccaccata ttttcagtac agctccgcta 60
atgaacatcc tcaaatcata ccagacactc tgtatttatt tttctgatgt acttccctat 120
aatctgtttc agattatttt tatttacaga aatgattttt tccaagattg ggaccaccaa 180
gaaactacag atgcagacat acgtcatatc actcctctag tcctgaattt ataatattat 240
ttaactcagt ttttcttttt acctgagaac aaataaacaa aaataacaaa caccatctcc 300
caccaaaata atacaaacag caatgaaaaa cttttctaag tagctgtgag tcaaaaaggt 360
gaaatttcat tgagctgcaa aactaatcca gcagttttag gatatgttca cgttttggta 420
atttagatga ctatttctac atttccctat gatccaggat accaagggac ctgctgcctg 480
agacgttgag atttagaggg ctttttctct gttacaatga ctcagagcaa atggagagag 540
tgtccatttt tcatggatga tgatgcttgt aaattttcat tcatatcttt gataactgat 600
gtacttagca acttccagat aacattggtt agagttagct ctgcttattt tggttctaat 660
ttagaaggaa gacagagaaa atactcattc taagtaccta ctttttgtca gtaactatgg 720

tagctacttt atgcactttg tgtccatcag ggttttccag agaaacagaa ataataggat 780
acacacacaa acacacacac acacacacac acacaggttt cacatccata gattcaacta 840
acaggctcta aaaaaattca aaaaaaaaaa ttctacaaat ttccaaaagg caaaacttga 900
atttgtcatg tgctaaatat cacacaaaag aaataacatg taggcatggt attcaattga 960
ataattaatc tggatgggtg tggtacttca cgcttataat cccagtactt atggagtcca 1020
ggcagaaggt ctgcctgagc ccaggagttt gagagcagcc tgggcaacag ggagagactg 1080
ggtctctgaa aaaaaaaaaa 1100

<210> 1659
<211> 1473
<212> DNA
<213> Homo sapiens

<400> 1659
gccacgaggg gaggttggct cttccgggcc atcccggcct ctgtggagca tggccgggtc 60
tatgtgggca atgttgcctg gatgcacgtg ctggcagccc gggagctgga gcagcgggca 120
gccctgatgg gcggccaggt atacttctgc tacgatggat caccctacag gagctacgag 180
gatttcaaca tggagttcct gggcccctgc ggactgcggc tggtgggcgc ccgcccattg 240
ctgccctact ggctgctggt gttcctggct gccctcaatg ccctgctgca gtggctgctg 300
cggccactgg tgctctacgc acccctgctg aacccctaca cgctggccgt ggccaacacc 360
accttcaccg tcagcaccga caaggctcag cgccatttcg gctatgagcc cctgttctcg 420
tgggaggata gccggacccg caccattctc tgggtacagg ccgctacggg ttcagcccag 480
tgacggtggg gctggggcct ggaggcccag atacagcaca tccacccagg tcccgagccc 540
tcacaccctg gacgggaagg gacagctgca ttccagagca ggaggcaggg ctctggggcc 600
agaatggctg tccttgtcgt agagccctcc acattttctt tttctttttt gagacagggt 660
cttgctctgt cacccagact ggagtgcagt ggtgtgatca tagctcactg caccctcaac 720
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cgccaccaca cctggctttt tttttgttgt ttttagagac agggtctcac tatattgctc 840
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gaactacaag tgtgagccac cgcgcctggc ccaagccctc cacattttca atccaggagc 960
cttgagtctg tgttgtgtcc tgacacctcc aagttctagg gccgtcagga cacgggaggg 1020
tttggggaca gagtgtcctt cctctgtcct ctcatcccag tcctgatggc cgcttggtga 1080
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tggcctccct atgctttcac ttcccacctc tctacctaag ttccttccca gcacatcgcc 1380
agccctgggc ctggggatgt ccccaatgct gtacctggct gaccccggat taaaagcctc 1440
atccacgacc gtgaaaaaaa aaaaaaaaaa aaa 1473

<210> 1660
<211> 1291
<212> DNA
<213> Homo sapiens

<400> 1660
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gcaacagatt agagtcccca ccaaagaaaa agaaacaaga ctcaagggct ttttgagctg 120
ccacctctcc ccagagaggg ctcagaaaaa agatggcctg gactctgctg ggcagggtgg 180
tgggtcatca cccatgaatc aaggacatga actaacctat atacacctat gccagcattg 240
cagctttggc atttctgggt atgagggatg caggagcagc aagcttgatg caaggggact 300
taggaacggg cctctaaaca aagcttctct ggtaagcaca ggatcttccc ttaaattacg 360
tgcctattaa ggggtttagg atgccccgcc caagctgtgg cttggttctt cttctataca 420
cacacatata ttcttaaatt ctcacatatt tatagccctc acatataaac acagtgtctg 480
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aggcatgaaa gtgtccactt ctcagaggaa catggctttg ggtcactgtc atttgcacct 600
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acacccagtc agctgagctg tttacacgta gtgggctagc ttgctcatgc ttacctgctg 720
tgtcttctgt tcatcagttc tttctacttt gttttacagt ccattcgtgg aactctagct 780
ttcaattatt gtttcataaa tacaggcagg taggacaaaa atgtggctga atcattgcaa 840
aatcaaaata ttttctggga gaaaaaaatc atagcacttc ttctactgac aagtcagaaa 900

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cattcttctt acctctgaca ggaaatttcc acattctact cttgaatcct ccttaattta 1020
gtacctgcag aatgtgccta acagatgctt gataccctaa attacagtca gataaggcag 1080
gatgttaggg gtccatgatt ctttggggag atttttgca agtacatctt ccttcctaca 1140
aaaggtaaaa aaaaaaaaaa gcacccacag cgttcaagtt gaaataactc cagcccaatt 1200
tttatgactc cttctctgta cttccaatac tcccttccta caaaaaaaaa aaaaaaaaaa 1260
aaaaaaactc gagggggggc ccggtaccca a 1291

<210> 1661
<211> 582
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (297)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (335)
<223> n equals a,t,g, or c

<400> 1661
ggcacgaggc ggcggtggct gcggcggggc gcccgggtgc tcggtggcct ccgagtactt 60
ggtgaaaacc agcggcacag cgatgtccgc tttgtccaac tggttccaga agcgggcgat 120
gcagcaggcc ctcgtgatgc acggccacgc catgatgcta gctgaaaagc cggcctcctc 180
tttcttcttg tggttctaaa gcaagtctct ataatcttcc ttcagcctcc gatcctgacg 240
gccaatgtgg ttcccaccgt tttctacccc cgatcagccg gagctagttc gccctcntcc 300
ctcagcgagc acccggggag actgtcctag gagantctgt agagtccctc gattaccggt 360
cgcaaacgcc tttgggagcg cagtgtgmtg cgagcgccga agggtgagac gcacggcgtt 420
cccgagtccc cggcgagggt gtctgggacg cgcccctccc tacggctgcg gcggcgcaca 480
gacctcggtc gagcgaggcg acgtgaggag aggtggctac aggcttaagc catggcgcag 540
aggaggggcc gggcggtgtg gccgcagggt ccgcggaccg gg 582

<210> 1662
<211> 1219
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (888)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (889)
<223> n equals a,t,g, or c

<400> 1662
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aaatttacct tctacaatta tttgacaaga atttaaagtg caattgacaa acctttcaga 120
aaaaagctgg gaattgggcc tttggggtaa ggttgccata tttagctaat taaacataca 180
agtttcccag ttaaatttga atttcagata aatgatgtac aatatttggg acacacttat 240
acaaaaaatg ctcattgttt atctgaaatt ccaatttaac tgtgcatctg tattttgcct 300
gggcatccta ctttggggta cttcgaggtc cctggctagc tcctggtcta tgtcttagtc 360
catgctcaga agtcccatgt attcaaccag ctgcttcttc ctccattcca gtggttcttt 420
tacaggtagg tgaggtctta aagaatcttt tgaaactttt gagccattcc ccaggagaat 480
atctacatac aaaatttggc atctccaggg tatgtgggtc ccacgtgagc cccaccccac 540
aatggtcgga cccaaggact cctcccacag tccatggcac tgtgcagatg gccagctacg 600

aggaagtgag catgttggac tttgaggagt tcaaccagac tatgaaacag caaaatcaca 660
agacctttt tgccttcttt gccagttcca aggacattgg aggtaacaga tatagcccca 720
atggcatgcg ggccaaacca gttgtagaga cgggctgaag catgttcggg aagaatgtgc 780
attcatctac tgccaagtag gagaaaagcc ttattggaaa gatccaaata atgtcttcag 840
gaaaaatttg aaaggagctg cagtgcttaa ccatggaacc caggaaannc tgatagaatc 900
tgagtgtctt caggccagca taatggaaat gttctctgaa gattaagatt tgatgatggc 960
agtcatgcct tgatttcctg ctctgttctg gtaaactgca tacttggttt gaattcttgt 1020
tagcaataaa taaataaatg atgatgggct gggcacagtg gctcccgcct gtaatcccag 1080
cactttggga ggtcaaggcg ggaggatcac ttgagcccag gaggtcgaga acagcctggg 1140
caatgtggtg aaaccttgcc tctacaaaaa tatttaaaaa ttagccaagc gtggtggtgc 1200
atgcctatag tcccagcta 1219

<210> 1663
<211> 1543
<212> DNA
<213> Homo sapiens

<400> 1663
ggcacgagtg taactgtata atattgacaa tcgaacaaac agcttcaatc atgtctattc 60
atatctccag gcaaagtttt gttcttcttc ctttatttta caaatgtatt gcttcaaagg 120
acacatactt ttgtggataa acaatttcca ctagaagaag aacaggaaag gtagctattt 180
aatatatgca gttagagcca tgaggtatgg atcatagtaa ataatatttt gcaatgatac 240
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<212> DNA
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<211> 783
<212> DNA
<213> Homo sapiens

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aaa 783

<210> 1667
<211> 578
<212> DNA
<213> Homo sapiens

<400> 1667
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<210> 1668
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<212> DNA
<213> Homo sapiens

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cccaaatgga ggccaagaga ggaacagcag aggatacaga gggagggttc caggggccaa 1080
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gg 1142

<210> 1669
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<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
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<222> (599)
<223> n equals a,t,g, or c

<220>

Page 963 of 1669

<221> SITE
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tactgaggtg ggaaatatga actatccttg cataggaaca gctggaataa cctggtccaa 240
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<212> DNA
<213> Homo sapiens

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taatttcatt aggtttttag tatagcaagc atttcagtgg taagctgtat atatttttaa 480
aataatgtat accaggtgta gtggcttacg ccwgtaatcc cagcamttcg ggaggctgwk 540
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<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
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<222> (823)
<223> n equals a,t,g, or c

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<211> 630
<212> DNA
<213> Homo sapiens

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<211> 2521
<212> DNA
<213> Homo sapiens

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cagagactgc tttctcttac ataaaatact actttccttt ttatcataaa aaataggatg 2220
ggcatggtgg ctcacacctg taatcccagc actttgggag gccgaagtga gcagatcacc 2280
agaggtcagg agttcgagac cagcctgacc aatggagaaa ccccatctct actaaaaata 2340
caaaattagc caggcatggt ggtacatgcc tgtaatccca gctactcggg aggctgaggt 2400
aggagaatta cttgaacctg ggaggtggag gttgcagtga gccgagattc agccattgca 2460
ctccagcact ccagcttgga caataagagt gaaactctgt ctcaaaaaaa aaaaaaaaaa 2520
a 2521

<210> 1674
<211> 1475
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (40)
<223> n equals a,t,g, or c

<400> 1674
gaattcggca cgagattgac ttcaactctg ctttgcaggn aatgccttga gaaataagag 60
ggtaaatcca tttgctgaag gatatcacca tacgtgaaat ttctatctct ccaacacact 120
cctagttaat ccactggatt cttaattgag aaaaatgacc attcccaaag atagcttgat 180
tttatttaga ctattggctt tcatagtata tgttttatgg ttttctacga atattcacta 240
ccctcaataa tctccaccta caataagctg cattgccaaa gggtcctgcc actgccaagt 300
catttgtttg tcctaaactt ctttgttata ttatttktac aaattcttaa aagaaataat 360
tgtcaataat cagttcttga gcatttacta tgtgktttac ataatagaga tgatattaaa 420
tcagcatatt ttccattccc ctgcaaatct ctttgccttg aaaatcacat actctaacag 480
tctcctacca ttcatgctaa gtaagaaaaa tcaacccagg aaagaaagca caaactacaa 540
caaatcaatc ttttgtcaac tcaaagctga ctctcttgag tccttagcaa atctaagtaa 600
atagttttaa aagccaggat ttgtgaaaac aaaatagttt ttctgaattg taatagctcc 660
ctttacacat gttaaaatac aggcttatct agatcatgga aaatattatt tgttcttttt 720
ttttttttt ttgagacaga gtctcactct gtcgcccagc ctggagtgca gtggcacgat 780
cttggctcac tgcaagctct gcctcccagg ttcacaccat tctcctgcct cagcctcccg 840
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agacgatgtt tcaccgtgtt agccaggatg gtctcgatct cctgacctcg tgattccccc 960
acctcggcct cccaaggtgc tggaattaca ggcgtgagcc accacgcccg gscaatttgt 1020
tcattttcaa gataatacct ccattgattg ctctattatg acaagcmctg awtgatataa 1080
gtgttttgca tgtwttcact ccttttctacc ttacaacaat ctccatctca tttgttcact 1140
cgtgtgtccc aagctcctat aacatggact gatagacagt ggacaaaata aatatgtgct 1200
atgtgaataa gcaactttat gaaatatata ctggacagta tatatttcta tgtacatttt 1260
gcagataaat aaacagaggc acagagcagt tatgcttcat ttccaagatt ttatactcag 1320
tagtaataac taagattcag gatagggaaa gtgattctcc taaacttcaa gtgaggtggt 1380
caacgtcatt agagccaaaa caactctaga ttctctaact tcaaacctat acataattta 1440
taggattttc tgccaaaaaa aaaaaaaaaa ctcga 1475

<210> 1675
<211> 1784
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (555)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (559)

<223> n equals a,t,g, or c

<400> 1675
ggcacgagct ggtgtgttga taatgctctg tttcttgatc tggagactag ttatgtgggt 60
gtgttccact tgcaaaaaaa tgcatcgagc tcaagataag tgtgcttttc cgtaaggata 120
tttcatctca atagaaaatt tggcttttgt gtcaactctg cctaaagtaa gtgggaaact 180
acaaaaactg gggacttgga catcttttaa tcaaactatg tatcaatgtc atgtcaaagg 240
ttttgttatg tgtcatcttc cttgaatgag aatggcaaca agtttttttt ttatcacaca 300
gatttcctat gtgccttttt tccccagtcc tgatagtcta tgaaccaacc aaacttaggg 360
aaaagtaaaa cagttaagtc ctgtatttcc accttattta caatataatg ccctctacag 420
aaaataatca cagaaacaca gaaaatgact tctccagaga tgagaaatgt gcatgtgacg 480
ccactctgag ttatctcctt caagaagtat gtattcyata atctgggaga agagtaaatt 540
aacactccaa ctccnaagnt caataattat aatatgagag agacaacagt ggaaagaatg 600
aatgtcctca ggcttaattt actagcmggr aagamcagtc agaggaaaaa aaaaaaaaaa 660
aaagmccgag amcaytgagc tctcttctgg aatgscagaa ggmccacttt ctcctgcata 720
aatgaagsca gggctaatmc aaaacgtttt ctgggtatta tttaacctct cctacccagg 780
ctattttagc tcagtaggaa attcacccac taggtggacc ttggagttca tccaccaccc 840
caataaagat tgcctttctt atttgaagtg atgatcactt cttccaagca aaccaacaaa 900
ccctaggtat tcaacctctg ataacctgcc tactaaggaa cttcagtgga atcaggggat 960
caacgatgct gtccccaaac tggcctaagg tgaaccaagg ggagaagtta acagcagcac 1020
ttaaattgat ctactcatac tcaaggatta ctgagtcttc tgggcaagaa aagaaagcaa 1080
ttacaaacta ccaataagga aaggtgtttt gaaaatagcg aaaaaaaaat gtcccctaca 1140
cttcctttca aaggtagcct cagagctagt ctggctgcgc agatgaccag tgaaaataaa 1200
tgaaaactgc agtacggtta tagatgatcc ttacacctca gcttgttctc aattgcaaaa 1260
aaaaaaaaaa aaaaatgcat ataatctaac actctcctgt ctaaattgct tcaaactttc 1320
tcagaacgac cttcatcgtg gcggattctt tttctgcaaa cctttacagg ttgcacctgc 1380
ttcacacaga accagcggaa acaaactagg aggagataaa agagaagaag taggaaggtt 1440
taaaccaaca caagtcgatt ttgtacccaa aaaaaaaaaa aagtttagtc taaaaaggga 1500
ggtccagtga ggaacaagac agagggtgaa acagaagtct ggcttactcc caaggcagaa 1560
atcatgactc atcaaagctt tcagagggga cagaaccaga ctttgcattt gtcttgaggt 1620
catcttcgag ccaagaaatg ctctcttaac cgggacctga gaactttaag ggtctgcgac 1680
aactggctgt gaggccttgg gcaaaacctc taacgtctct ggggctcggt ttcctcatca 1740
ggtgaagcca gggtccactc tagctttact agtctctcct cgag 1784

<210> 1676
<211> 1743
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1561)
<223> n equals a,t,g, or c

<400> 1676
ggcacgagtg cattggttgc catgtaaaca gccagcttct ggcaggaaag cagctggacc 60
aggtgacctg gctgtgacag agaacacaga tattgaatcc atgaaaccaa gagtaatcag 120
tacaacgatt ttttttcttt tacttttaa aagtgtttgt caatccttta agttcttttt 180
gtctgactgc tgtcattaag taagaaaaat atgaaataaa taagtctttg ggtatgcaaa 240
attgggaaga tggacaggaa ttagtccctc tatgcaattt cctctgaatc tttcataatt 300
tctgtatcct catcccttca ccctcaaccc tccaacaccc tctgttaccc tgcaggcaac 360
taggacagca tagagagcgt ctcttgaact tgactttctc ttccagtgct tgcctgccaa 420
tcccgtgacc catcctggag aacttttata gtcttcgaca atgcaatgca tagcaaccag 480
ttaataagat aagacagtga ctgtatagtg ctccccaaag tgccatcacc taaaatagcc 540
ctttgraaag tgcycatata gaactgagaa ttttagtgta gtgscaggct ggatttgggt 600
agggtgccyt tcggtggscc tccaaatcct atgggragct taattacttc atctttctgt 660
aaggccaaca gttctcaaaa tttgtggtct caggmcaatt ttacactctt aaaaactgag 720
gragatttct ggtctggaca tgtagtacag acctgttttt cattgttcct ccctgctaag 780
cacaagtata aaccctggaa ataatgcaag agacaaccag ggtagaactc tggaaggttg 840
taaggagaag gcaaactggt ttgagaccca gggaaaaaca aagagcaagg gtatcctatg 900
tttcccaccc agcagaagaa agaaacctag tcctggccat tcctgatacc caactgaaca 960

acagagggca gcccaggtaa gcttactcct ccctcagagt ccctctgaca acatcaggta 1020
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gaagcatttg ccttctcccc aggcctgaga tgtcccactt tcacctagag atatcgaggt 1140
gggagggtag aacagacacg aggcataaag tgatggcaag cggcccagtc tgggaaggct 1200
ctgtctcagt gggtgtatga ctgtcctctc ctacccatag agacaccaac agtgcagggc 1260
gccagtagaa gtgtcccacc atacctaccc caactgagag gcacctggaa gcctgaccta 1320
gggaaacctt tctgctcctt caggcgatat gatctgggac aaatgtcagc ctcagtgata 1380
tccgataaac caaacagagc aaaacaatac tgaaaattaa actgctgtta gaacaacaga 1440
ccacaaaagt aagccaacac ctgcttgcat gtgaagcata aataatgtga ctgactgcaa 1500
aaataaaaaa tgtaaatatg agtttcctaa catagtagac aaaatgttca atcaaaaatc 1560
ntctgtcata ccaagaatca agtaaatcac aacttgactg agaaaaggca actactgcca 1620
acattaagat gagttcgatg ttggaattat ctgacaagga tttcaaagta gccatcataa 1680
aaatgcctca acaatcaatt aacattatct taaaacaaat aaaaaaaaaa aaaaaaactc 1740
gag 1743

<210> 1677
<211> 1201
<212> DNA
<213> Homo sapiens

<400> 1677
gatatggaga gtcaattgca tttcattatg cccaaaggta aatgcataac tttttccgca 60
cagctaatct tctagcaacc ccgttgctgt ccatggcaag caggttagtt actctcgccc 120
tttcccgttt caggttcatt aaaaaactct tgtcaaaatc tctttcatcc catcttattc 180
ttcattctca cttccatcag catatcagtc caggccctag taacattaat gttactaatg 240
gcactgttag taacattact taccagcatt caagtgggtc ttcctgatgc cattctctcc 300
catcctgaaa tcactgctgt ttatatagat cttgtatgat gtcattcatt ggctcaaaaa 360
cttttaaagc cttccttttt ctaccacccc aatctaaatt tcaatgcctg gcttttatta 420
aaacccataa tttggcccca ccctagctat ttaactttat tttccactat tcgccagtct 480
cctccctcat caacgagaag acataccata atcaacctca cctctaaccc ttggaatatc 540
taaacttaaa aatggtcctt ccttyccccc ttactkgtat ttaaagamcc tgatgaatta 600
ttcctcctct gctaaacttt tcacaattct tcaacctcat ttatgtttca cattttcaga 660
acatatcttg ccgtttatta ggaatctcac aattaggcac tctcatgtag atagatttac 720
gatcatgtat gttgtcatct tctattaaat tccatactcc ttgaaggcag gagccatgcc 780
ttattctgtc ccccagagta ctcagaatga tgcagagcac acagaaagta ctcaaatctt 840
gttgactgat ccagtgagaa atgaccaact tcagttccag cctctcttta acatgtacat 900
agcaatttgg gcaagtcaag ctccatcctg aaggacataa taggggactc tttaagcaca 960
ttattatgaa ggcccttcag ggataacacc agagtgatga ggtgccctat accagggata 1020
atggagacag agtacttggg attcatcact ggggtcctca aagcatcttc caagggcata 1080
ataaggaagg actcaaacac ctttgaatct ctgtgagacc agtcatgagg tcttttgaaa 1140
gagttcttta actggagtga atgtcaaaga gaagtataat aaaaaaaaaa accggcacga 1200
g 1201

<210> 1678
<211> 1815
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1360)
<223> n equals a,t,g, or c

<400> 1678
ggcacgagcg acaagccatc cccctgccct tcctgcaggc tgccttaccc attcagaggg 60
aggccgaggc tgtgccggag cggcccacag ctgcgggacc gcgttccagg gtgtgctctg 120
ctgcaagcat gagggaagga cagttaaaag caaaacggaa gccttgcatg ggccgcttat 180
gcttctggag ctacttttttt ttttttttttt tttttactat acatggtatt tagataaagg 240
tctagagtaa aaggctctac aaccatctta tgttcagagg tcagtgtgtg acttaattta 300
acatttcctt tacttttgtt tttctccatc ttgtatttta tagccagagc ctgaacctcc 360
tcgtcgattt tttgtcgacc agtgggagct ttctcttagt ctccgctcct ctgcccgccc 420

cgcctctccc tccyccgact ccytccgaca ggtagcatgg cctaggactc actaaaactc 480
tgccctccgc agcctccact cacgtcactt tcgcaagtgt catgtacccc aggaggctgc 540
agtgttcctc acttgggccc gtctcctgta gggagccagc tgcatgtgtt gctgtttgcc 600
tgtgtcggtc tcgtgtgtra ggtctgtggc acactcctca gctaaagtgg ctgctggctt 660
tcatccaamt gawctgacac atccaggtct gttgatgtga acccgctttg atcctatttc 720
aactatatca aataatgata aatgttttgc agccattggc ttttttaact tcacatgtct 780
tccaaaataa tatgtgttaa aaagtaggaa ccacaatgta attaaatcac ctcaatggag 840
gggtgatgat gcggtattct ggctgcctgt tgtcatcatt tgaggaatgt acgcgrctgt 900
cacctgaagt agcgctggtc cagttgtagg gagtttctag agagattgga aggtctcttt 960
gccactccta ctggtatttc ccatgcctga gttgacgcca gacctcacgt cctatgtgca 1020
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agggagtttc tagagagatt ggaaggtctc tttgccgctt ctactggtat ttcccatgcc 1140
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cccgcaattg ccacatttct gctatttttt atgagtgatg agaaggaaac catcgctttt 1260
catgccagaa acaaatagaa cttgagtctt cacctctctk gcagggatgc ttgtcagtgt 1320
tgccaacttg ctgagaactg aatgtggcag atgcctttgn acgggcagcc ccaggtttag 1380
ttcaactaaa cccagatggt ttagttcagg agaaaagggt cctggctgag cagtgagggc 1440
ccagggctgg cttggtgtcc tggcctcata cttggcatct ggcccacact gccccgtgtc 1500
tgctgcagaa tgagagaaat gccattttct gctccctcag tgtcagctgt taagttacct 1560
gctcagctct gcctggtgtc tgtctgtccc aagcctcagt ttctttagtg tccctaaaga 1620
aggtttagat ctgagagcca cgtgtttgtc ttgaccacta ataggtataa tctgtgaagt 1680
taatgggcaa atggcaccaa tccttgggaa tcttattttt gaattaaaag ctataattgc 1740
ttcttcagtt cagctgagcc ttgagctgag ccacaagaac ggcttcgtcg tgtgtgcatc 1800
tgtgagcccc tcgag 1815

<210> 1679
<211> 925
<212> DNA
<213> Homo sapiens

<400> 1679
ggcacgagca gaaatgtagt tgtaaggaaa aatgaaatga aaaagtttga aatctaaagg 60
aaaaaaggaa atctaagtag caggccaaat ttatctgcaa tgtaaagcct ccttgatgtt 120
atttccttta tttttcatac taagtatttt tagtgtacat attgtaaatt caactttaga 180
aatggaaaaa cagtcccaaa gggtgtaagt atcttgacca ccatatcaag agcactgtgt 240
gagaggcaag atggaaaccc atggctactt catgacatag cctctaaaga gacggtgtag 300
gtaggacccg tcatcttgct tcagcaagtt gccctggttc cttgccgctt actcctacct 360
aggccctaat tctttcatcc agctctatag cctagggact tctcacatgt tttgtggcaa 420
atgggatacc cttagaaagg aagcagatga ggagagacat agcgcaaggt atggggaaag 480
gggtagggag cttctgtgcc cactaggggc atgctgccct ccatatgttc agctagccag 540
aagccgtctg aatcctgtcc ttttggtttt gatggaggtt ttcatctgta ggcgtgactg 600
attaaactgt tgtcctgcca ctggggatca aattaacctt ctgcctcttc ccgaatgctg 660
ggrgggggggg ggcagctgaa agccccaacc ctcctattcc ccaaactaga gctacctagg 720
tgctgccagc catgagtcaa ctcactagca tataaaaaga caccactttg tggagatttt 780
aaaaattgta gtagttgtat gccaggaagc agggtctagg accaaatatg tattacacaa 840
tatcacacct gtgcatacca gctcaatcag aacacaaaat ttcaaaaatg atactgaatt 900
taaaaaaaaa aaaaaaaaac tcgag 925

<210> 1680
<211> 921
<212> DNA
<213> Homo sapiens

<400> 1680
ggcacgaggg catgcctccc ttgctgcagt acattccctg atcctctcaa caagctcacc 60
tctgtaagct gctggcctcc ataacctgct ccaactcatt cttcttgccc attggggaac 120
acctctcctc tgtcctgctc tcccatatgc tgcaaactca ccctctgctc tcccagctcc 180
cagctcctgg gcccaggttg gtcgtttctc ttgctttcct cctctactgc atagcacggt 240
actgtcccac ctgcaccatg ctgcgttctc tcagcaccac ctgtgattct gccactggcc 300
taattcgtgt tctcaggtgt gtcctccctt cttgacctgg ccccgcaccc actgctccac 360
cagatgcagt cctctctgtg tcaaacgtac tgcactgaat ccacacgctc tgctgtccaa 420

gctcacgtcc cagtggccca ggctatgagt cctttccagg gccccacaac cctgactccc 480
ctaaaccttc ctgattcttt tctcatcctt tctttcacac tgtgtaaaaa cactctgggg 540
agcctctgcc tctgaatctc ctamcttctt cctgtcacca gagtagtttg tctttgtcac 600
tcattcgtgt cccactttct gcccatcctc gtccccccgg tacgaatgca mccagtctca 660
acctgamtct cctgccctgs ctgagamcca gctcctctgc tcctcctggg tgctcctgtc 720
agtcccaccc tcctcccacc tcctccctcc ttaaggccca tgtcttcaag acgctctcct 780
tccacactgt ctccatttcc ctttgcacct tccctccccg tgacaacaga tcccctgctc 840
tctgctctca cccgcacagc ccacttcctc tgtgtcactg ggcccctatc ttggcctcac 900
tcctccacct gagtcctcga g 921

<210> 1681
<211> 979
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (48)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (773)
<223> n equals a,t,g, or c

<400> 1681
ggcacgagaa tagggctacc tggagcaaac cctggctccg taggatgnat cctggggttt 60
cctggctgct ggggcggcag tctcgccctc ccagtcggcc tgcggttggt gggtgggggа 120
gggggcggtt ctcgctgcca cggatccaga aggccaaatt gaaccctcgt tctgggattt 180
ctggctccta ctcccgcagg ccgcttgggt gactgtcctt ttttggagag gatatagaga 240
cacagctgtg gcctctgcac actgctcttc ttccaggctc aggaaaggcc ctcgcccagg 300
atgtcgccac tcagaaggcc gagacccagc ggtcttcaat agaagtccgg gaggccggga 360
cgcagcgttc ggtggargtc cgggargccg ggacccagcg ttcggtggaa gtccaggagg 420
tcgggacaca gggttctccg gtggaggtgc aggagsccgg gacccagcag tctctccagg 480
ctgccaacaa gtcggggacc cagcgatccc ccgaagctgc cagcaaggsa tgacccagcg 540
gtttcgcgag gatgcccggg acccagttac tagattatga aggcatctca gsccctggas 600
ccagagccag tcagggktta aagtgaaagc ccgtatttcc gcccagaagc tggggttggg 660
gagaggatgt ggatttttg ttttaccctt tctgttgcat ggttgcaaac acaaacttga 720
gttctaataa agaattgcaa agtggaagcc cgcccccgc ctccccccyc mtnacttaag 780
tccaggaagc tggggtggcg aggaaggatg atgtggattg tttttgtttt acaccttctg 840
ttgaatggtt gccaacacaa acttgagttc taataaataa ttgcatttcc ctaacgtctg 900
tattttggaa ggtagagggg agggaaaggc gcattcctcc aacagcccag ttctgccctg 960
cgcagccctc tacctcgag 979

<210> 1682
<211> 548
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (37)
<223> n equals a,t,g, or c

<220>
<221> SITE

PCT/US2003/036456

<222> (56)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (548)
<223> n equals a,t,g, or c

<400> 1682
tgtntgaaat tgtgaccgga ttaacaattt cacacanaaa cagctatgac catgantacg 60
ccaagctccg aaattaaccc tcactaaagg gaacaaaagc tggagctcca cgcggtggcg 120
gccgctctag aactagtgga tcccccgggc tgcaggaatt cggcacgagt gtgcatatat 180
gtgcacgtgt gtgcgagtgt gcgtgtgcat gtgtatatgt gcgcatgagt gtgcatgagt 240
gcaagtgtgc atgtgtgtat gtgtgcaagc gtgtgtgcac atgtgcttgt gtgtgcatgt 300
gtgtgcaagt gtgcatgtgt gcgagtgtgc atatgtgcat tgtgtgcgtg agtgtgcgtg 360
tggtccgtgt acacatctgt ccatacatgt gagcttgcat gcacatgtga gcatgtgagt 420
gtgcatgcat gtgttgtgtg tgtacgtgtc tgcacgttgg tgtgtgtatg tgtgtgcctg 480
tgagtgtgca gagaggccct ggcgctcgag gggggggcccg gtacccaatt cgccctatag 540
tgagtcgn 548

<210> 1683
<211> 975
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (401)
<223> n equals a,t,g, or c

<400> 1683
ggctgcagga attcggcacg agcttcaatg aaatttatag aaaagactct cacaagtacc 60
attgaatata gttttctgat gattttgaga tcgtagtatt tgactgggta agaattccga 120
acttcagtga aaaaactgaa ctcaaaaaac tactaaccca acatcaagca gaataagaat 180
tattacatgg gactaaagca atgaaagatt atgattttat gacttttttg tttggcacat 240
ggcttattct ttcatgtttc attttccaca ttaatttttt ttttctttca gctatctaca 300
gtttacggga atatgggaag gtgtactttt gtgtgcagaa ttgaaatttt tttttctccc 360
tacctgatcc ctccagagtt tggagactat ttgtgagtat ncttatttca ataacaatat 420
agttatttgc ttacatttaa gaagaatcta ttctctttct aataggacac aattggaaac 480
attggccata ttaccaaggc tttgcctgac atgtcctatt ctgagatatg accagattgc 540
tctaaggaat taaagttgac tttataaagc caattaaaac cccttggaaa atctatcttg 600
atatcttgga taaataatta acatggttga tttacaggtg agaaaaaatg tcacttcctg 660
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tttaaaggta ttacaggcac aatttgaggg tgactcctcc ttggattggc ttcccagcct 780
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a 481

<210> 1685
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<212> DNA
<213> Homo sapiens

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tcactatgtg gcaatattaa taaatacaga ttaagtattg ggtatctttg ctatttaata 240
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<210> 1686
<211> 455
<212> DNA
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<210> 1687
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<400> 1687

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<210> 1688
<211> 636
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<212> DNA
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<212> DNA
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<212> DNA
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<212> DNA
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<212> DNA
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Patent Application Publication

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<213> Homo sapiens

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10/552,050 JC20 Rec'd PCT/PTO 04 OCT 2005

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<223> n equals a,t,g, or c

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<210> 1699
<211> 953
<212> DNA
<213> Homo sapiens

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<210> 1700
<211> 1559
<212> DNA
<213> Homo sapiens

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<210> 1701
<211> 608
<212> DNA
<213> Homo sapiens

<400> 1701
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gcctcgag 608

<210> 1702
<211> 1157
<212> DNA
<213> Homo sapiens

<400> 1702

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aggcagagaa agggagagaa atccccatag aaagaagagc atacagccaa gtttgcgttg 120
gctgtgcttt ctgctctcaa tattcttagc ctgtcttaac aatcattctt ctgggtgggc 180
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<210> 1703
<211> 742
<212> DNA
<213> Homo sapiens

<400> 1703
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cagtaagtat agttacaata attttaatgt gtgcacttaa taaaaataca taaataagga 120
caatatcctt tccatttaca ttttatatat ttatgttttt tcatgttcta tttagtgtct 180
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tctcagcaca gatctcaaag tgttcagctt ctttggggtt atttgagcag catggatatg 540
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tttcttcccg ttttccctct ctgctccttc tagaacttcc ataatataga tattgtttca 660
cttgatggtg tgccgtaaag caagtaacct ttcttcattc ttttttcttt ttcctctgat 720
tagataattc aaataatgtg cc 742

<210> 1704
<211> 303
<212> DNA
<213> Homo sapiens

<400> 1704
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agaggttgct aaaggttgtt aacttgatgt ttcatttaca aaataaacac tctgtttata 120
cttagtgtat tacactttcg tattgcttgc cctgggaaat atgccagggt tggctgtgac 180
tagcccaact tgggttgtta ggttcactaa caatccagtc actgcggcca gcaggatgga 240
ccatgctgct tggttagtac tgatctcagg ctcatccctg gaactgagac tgaggtcagc 300
ccc 303

<210> 1705
<211> 1162
<212> DNA
<213> Homo sapiens

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cctggaatcc cagcactttt tgggaggcgg aggtgggcag atcccttgag gtcaggagtt 120
cgagaccagc ctggccaaca tggcgaaacc ccgtctctac taaaaataca gaaattagcc 180
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acctcgctgg tttatgagcc tcaggccagt aactcaaact acgtttggag actgtggctc 420
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aagtgatgac ttcatgccgc agacagcgaa ccctcacctc ccaacagatg cctcagtgac 540
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<210> 1706
<211> 759
<212> DNA
<213> Homo sapiens

<400> 1706
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gttgcccagg ctggagtgca gtggtgcaat cttggctcac tgcaacctct gcctcccggg 120
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<210> 1707
<211> 933
<212> DNA
<213> Homo sapiens

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<210> 1708
<211> 655
<212> DNA
<213> Homo sapiens

<400> 1708
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gatatgcaaa taatcctgat ttatagttat ttggtcagag ggatggattg tatattttat 180
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cagctcaccc tggtgttgcc atggagattt atatcaatgc catgagccag ggcctaattt 480
gcgcattctg ctgattaaca ggagtatttg ctaatccctg ccaagctctc tcatccactg 540
ccatgactaa tctcaccggt tggcgatgcg tggaattcat gaatgctaga aacccatcat 600
cttaggttat ttaacacttc aattctgttc agtaacaact taattaagtc tcgag 655

<210> 1709
<211> 366
<212> DNA
<213> Homo sapiens

<400> 1709
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taactcacac aactgagctg ttgttagtta ggatctacgg ccacagaaat agtatgtctg 180
aaataaacat aaatatgagt aaaatccagg catacccccc aaatcatgcc cttcactttc 240
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gggata 366

<210> 1710
<211> 621
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (616)
<223> n equals a,t,g, or c

<400> 1710
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tggtggcaca tacctagtct cagttacttg gaaggctgag gcaggaggat cacttgagcc 480
caggtggttg cggccagcct gggcaacata gtgagaccct gtctctttag aaaaaacagg 540
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acctgaggtc gggagntcga g 621

<210> 1711
<211> 1611
<212> DNA
<213> Homo sapiens

09/504,363 - 02/15/2000

<400> 1711
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gtagtattta tgcctggcat gtatacaata tgggtccata tatgcaactg agcaggtatt 240
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<210> 1712
<211> 1267
<212> DNA
<213> Homo sapiens

<400> 1712
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ctctattctt ctgtttcctc ttttttcccc cttaatttac attttttgtg ggggggcagg 660
taagagacag gatatcgcta tgttgcccag gcacaccttg aactcctggg cttaaacaat 720
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gtttcctcat ctttgaaaca ggaagaaaaa caatagcaac cactgttgga gttttaggag 840
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gatcaaaatg tcatcatcat tgctgacaag agctagactg gaggatgtgg ttgaagtgaa 960
aatactttac ccccagtcac taacacagca actgcagaca gcccattacc agggtacagg 1020
gcggtccaac ccagcacccc accttctcag aaagttatca gtcagagaaa tcctcctcct 1080
gctctgggga aaaggagaat gaaagctaga tagacatgtt cctccacact tggccccgct 1140
ggggaatgga ataggaatct cctcctgtcc ttgaaaatat gagaagcaaa aataagtgat 1200
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aaagtat 1267

<210> 1713
<211> 1341

<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (872)
<223> n equals a,t,g, or c

<400> 1713
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gcttgtraga taggtctctt aaagacagca taaaaataga tcttggttct ttatccatct 120
tgccactctg ttttttgacc agggcattta gctcatttac atttaaggtt agcattgtta 180
tatgtgaatt tratcctgtc atcataatgc tagctggtta ttttgcagac ttgtttatgt 240
ggttgcctca tagtgtaact tgtctgtgta cttcagtgtg tttttgttgt ggctggtaat 300
agtttttttct ttccatattt agcacttcct tcaaaggctc ttgcaaagta ggcctggttg 360
tgatgaattt cctcatcatt tgcttgtctg aaaagggtct tatttctcat tcgcttttga 420
agtttagttt gsccagatat gaaattaagg gttggaaatt catttcttta ataatgtcaa 480
atattggccc ccagtttctt ctggcctgta gggtttctgc tgagaggtcc actgttagtc 540
tgatggaatt ccctttgtag atgacctgac ctttctctct ggttgccctt aacatttttt 600
ctttcatttt gaccttggat aatctgatta ttacgtgttt tggggttgat cttcttgttt 660
agtatattac tggtgttctc tgcagtttct gaatttgaat gttggcccac ttttctaggt 720
tgaggaagtt ttcctggatg atagcctgaa gtatgttttc taacttggtt ccattctccc 780
catctctttc aggtacccca atcagtcata ggttcaatct ctttacataa tcccatattt 840
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gttcctctcc aaactggaaa atgctatggt tctggcaggc ttgtaaaggt gctgtgctga 1080
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agttggcagt ggagtgacac aagcacccct atggctactg ccactagggc ggcactacat 1260
cagatctgaa gacagcacag tgctgggtct cacccatggc ctgctgcaac cactcctggc 1320
tactgcctat atttgctcga g 1341

<210> 1714
<211> 372
<212> DNA
<213> Homo sapiens

<400> 1714
ggcacaggaa aggaagaaga tgactgtccc ctaaatcaaa gcccaccaca gaggacctga 60
gcaggtccca ctgttgcaga ctgcctgctc tcaccagcta ctgggcatcg tctgactcag 120
cttgggaggg cccaagtgaa tggtcatcag attgagcaac tgggcaccaa catgtgtttc 180
ctgagggcct gctggtggcc agctctgtgc ttgaccatac agcaggaggg actggaaaag 240
gggacaatac agtgcctgtg cttggggagc tctgggaaca aaagcccacc cattaaatag 300
tataataccc ccaggtgttt ctggcagggg agatgggaaa agtagccatt ttgaaaaaca 360
gccagctggg gg 372

<210> 1715
<211> 745
<212> DNA
<213> Homo sapiens

<400> 1715
ggcacgagga cacaaaaagc attaaagtat taagtaatgg caactggaac tttaacaacc 60
cttctgtcct tctgtagtct gttgatatag attggatgtg tgtcctctgc agatctcatg 120
ttggaatgtg atccccattg ttggagctgg ggcctaatgg gaagtattgg ttcattgggg 180
cacatcccac ataaatcgct tagtgacatc cccttggtga taagtgagtt ccttctttga 240
gttcatgcgg ggtctggttg tctaaaagag tatggcacct ctccccagct ctctcttgct 300
ccttctcacc atatatcatg gtagttccca tttgccttcc accatgattg taagtttcct 360
aaggcctcac caggaacagg tgccagcacc atgcttcctg catagttgtt cactcttatt 420
cttcagaatg gctactgcaa atattgtcca gatgtcaaag ctccctactc cactctgtgc 480

ccctcctaca ctcaacttgt taactctttg ctcccgatgc aaactcactt gtcctttctg 540
tcaccgtgga tgtctctctc ctcccagtgc agttaccctc ctgtgatttg gtttccattt 600
cctttccttt cattaggaac tttagatcat tcatttaaac tctcctctgt gtccttaagt 660
ttttccacta gtcattggta tcgacatttt aacatgctca agtctcctct atttctccct 720
ccctccaaaa aaaaaaaaaa aaaaa 745

<210> 1716
<211> 1203
<212> DNA
<213> Homo sapiens

<400> 1716
ctcgagctgc agtgggctcc acccagttcg agcttcccag ctgctttgtt tacttactca 60
agcctcggca atggctggcg cccctccccc agcctcactg ctgccttgca gtttgatctc 120
agactgctgt gctagtaatg agcaaggctc cgtgggtgta ggaccctcca agccatgtgc 180
aggatataat ctcctggtgt gccgtttgct aagaccgttg gaaaagctca gtattagggt 240
gggagtgacc cgattttcca ggtgctgtca ccccttttctt tgactaggaa aaggaattcc 300
ctgacccctt gcacttccca ggtgagacaa tgcctcgccc tgcttcggct catgctcggt 360
gcgctgcacc cactgtcctg cacgcactgt ccaacactcc ccagtgaaat gaacccggta 420
cctcggttgg aaatgtagaa atcaccggtc ttctgtgtcg ctcacgctgg gagctgtaga 480
ctggagctgt tcctgtttgg ccatcttggc tccaccccca tttgtgtgct atttatggta 540
acttgtgctg atgactctgc gatgtgtatt ccaaacatat gtatggaata gttccatttt 600
taaaagtact attcaaacag cattgtcctc actctcaagt ttgtcatctg aattaaactt 660
tacttaatct agtatgaaaa ctycttgagc tataaaaaag tatgaccttt tttgttataa 720
aagctatagt cacatcacaa tagggctata taaattaaca accatatttc agaagcactt 780
aaagcataaa catgagccct taaatatcta aataactggg gtcttttaat aattcactgt 840
atcaaaccct aaaaaaattt gattaatccc aagaaatctt cttctgattg agtaaatcaa 900
ataaatattt tcaccatgaa aaagatcatc ctacaatatc tatttgtgag aagtttagtg 960
ctttagatat tagggccact ctacttaggg aaagatatat ttctttttct ttttttttcc 1020
ttttttttta ttttttttgag acagagtttc actcttttca cccaggctgg agtgcagtgg 1080
cgcaatctca gctcaccaca atctctgact tccagattca agtgattctc atgcgccagc 1140
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ccg 1203

<210> 1717
<211> 722
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (598)
<223> n equals a,t,g, or c

<400> 1717
gaatttctgg agtttcagga gctttatcct aaggtggctg tgataacctg gattgttgtg 60
taaattgcac atttggggct tggcaagtgg cagatgggag ttctggctgt tttattacca 120
gtaactggga catgggcttg ggttcgagga ggccacgtgg ctcctgacac agccttaagg 180
atctgaggtg gcccctgccc tgggcacctg gggtgggaag ggaggtgcag ggaacaggga 240
gacttatttt tcactgtgat cttttcgaac catttgaatg tattatacct tgtgtgtttt 300
attcaaaaat gggtagattt gttaaacaaa acctaaaaaa aatatgagca ggagtgacag 360
aaaacagaga ccactgagtc tgagtccagg ttggcccctc ccggtgtaac cttgatgcaa 420
cattgagcag gcctgagctg gggtgacctc actgacagct aggagaggaa tgagactctc 480
ctctgggtca ctcggtggta ggggtgagct ggggtggcct cactgaccgc taggagagga 540
atgagactct cctccgggtc gcttggtgta ggggttcagt gggaatgggt ttggggcntc 600
tgacatatct ggctcaggaa gccagggtaa atttcagcct taaaggagaa aggctcgtgt 660
cagcccccac agtctgcagg ggctgtccct cctgggctcc tctccacccc tggtgatgtg 720
ac 722

<210> 1718
<211> 252

<212> DNA
<213> Homo sapiens

<400> 1718
ggcacgagtt tgagccacat gaaagtaaag ctgccttttg tgtctgtgtc actctgtgtg 60
tgtgactgtg taaggggtag cacacttaca tggaacaggt tactgcgtgt gggagaaggc 120
tcaggaaggt attcatattt atacagacgg aaagctgggt ggggttgcgg acacactccc 180
atagagaagg tggtgtgagc ttgtctggca ggccgtgaat aactttcata tggctcaaaa 240
aaaaaaaaaa aa 252

<210> 1719
<211> 1195
<212> DNA
<213> Homo sapiens

<400> 1719
ggcacgagcg accactcaca ggtgccaggg ctctgacatc tcgccaggca tagctaaagg 60
ttatactcat ctatcccctt ctgcttctgt tacttttggt gtgtggaaca agacccatgg 120
gagctggtgc ctttggctac ttggccttgc cttgtctggt ttgcttgaca tatctgttac 180
ctaccttatc tagaaaccat tctcagatgg gatgataaat taagagaact tacactcaca 240
gaaactccaa aacaattcca actgggcttt tcttcatgtt gaatcataat atactgtaat 300
gatttactaa tgaaatacca ttttgtttat caaattaaat gagcaaattt aaaatactga 360
tagccaagtg tggtggctca tgcctgtaat ccccagcact ttgtgaaggt gaggcaggag 420
gatcacttga gcccaggagt tcgagaccag cctgggtgac atagtgagac accatctcta 480
caaaaaacat aaaattagcc aggtgtggta gcatgcaact acagtcccag ctactcagga 540
gactgaggta ggaggaccac ttaagcctgg gagatggagg ctgcagtgag gtgtgatcat 600
gccactgcac tccagcccag tgaaagagca agaccctgtc tcacaaaaat aaaataaaat 660
aattgatatt acccctttata catggttgtt gaaatagggt ggtgcccttt tggaaaatca 720
cttgacagta tatccagaaa tgctgatatg ttttcacaca aaaactttgt tttactttca 780
gaaatttatc ctaaatcttg gccagacgca gtggctcatg tctgtaatcc cagaactttg 840
ggaggctgag gcaggcgaat ctcttgaagc caggagttcc agacaaattt agcccatgtg 900
gcaaaaacct gtctctacta caaatacaaa aattagccgg gcatggtggt acatgcctgt 960
aatctcagcc actcgggagg ctgaggcatg agaatcgctt gaacctggga ggcagaggtt 1020
tcagtgagcc aagatcacac cactgtactt cagactgggt gacagagtga gactctgtct 1080
caaaaaaaaa aaatcttaaa tctagaaaac tgtagatgtg ccaggcatgg tggatcacgc 1140
ctgtaatccc agcactttgg gaagctgagg tgagtggatc atttgaggtc aggag 1195

<210> 1720
<211> 1347
<212> DNA
<213> Homo sapiens

<400> 1720
ggcacgagaa attttcagga tgccagcttc ttagaaagca ggctctttcc cagtgggttt 60
cttacaatga aaacaaccaa aatataacat agagctcatt aaccttgcca gccactgtgc 120
taaattattt gtatttattt tattaataat aattatttct ttcatcttaa aaataacctt 180
taacttatta agaatgcatg cttattggat attctttaga aaatatagtt caacaaattc 240
agccataatt tcacccccag agagtgtcat tcccaacgct ctggtttagg atggctttgg 300
aagctggagc cctatacatt gggtggatat taggccaggc ttttttttttt ttttttttttt 360
cagaagtttc ccttccaaaa tgtgggaagg tctagtagtt tgcttggaga gaatcttttc 420
tgttttcttc tctctcaagc gcttgagtat aagacctagt tattgcctga tttgaaaaac 480
tgtatttgat taaaaagccc tcaaaacgtg gtcagttcag atgcaactgt gggaaagaaa 540
aatgatattt ttctatttct gagaagcatg agttgagggc tcaacacacg gtgaatgccc 600
aggagccgat gttaaacaac tgaaaagatc aattgaaaag aaggatcccc aaacacaatt 660
tcccctgact taatatttca actaatgaag tcaaccctga ctgagcacag gttacatgcc 720
aggcacaggg agggcgctgg aggctgctgc atggcatcta cctgtgtgtg tgtgtgttgg 780
gaacacatat gagttcatgt gcagcggtgt gtgatgtgtg tgtctgagta tgtgtgccag 840
tgtgacttgt gtgtgcgaat gtgtgttcat gtggttgaat gtatgtgtgt gtgcaagtgt 900
gtgaggtgat tgtatgagtg tgttttcacg catgtgggtg tgtgactgtg agtgggtatg 960
tgtgtgtgtg tgtgtaggag gagaggagga gatgcaaagg gaaatagaca ctgctatggg 1020
agcccagggg gcttgccagg gagagtgcac gagacctgca catagcaccc tcttcctttg 1080

atttgcaaag ccctctggac ctcccttcct gcctcttttc ctcctctatt gctctaaatt 1140
ctgaaaccag aattgcttgg ggttcctcat acaacctctt gacaatccca cccttccaaa 1200
ggaggataaa ctgactttca aagccagtat ccccaatctc aagtcctggt ctctcaactg 1260
gacttggggc aaaatggtta cagagcatgg taggcagcct tcaagatggc tgtctctgaa 1320
attcaggctc ttgtgggatt ccttccc 1347

<210> 1721
<211> 794
<212> DNA
<213> Homo sapiens

<400> 1721
ggcacgagaa aagtttcagt tctggggatg attttgttcc tattcttgat accaagcgat 60
aaaatcaggc tgctaagaga aaatgaaaag gaaatagcca gctagtgtca ttgaatcata 120
tcccgaggca gtgagtttct tccagcacat tttggcctca gtcctgaggc tggaccttaa 180
ctagtgaact gcaaactcac tcaattatgc agtctgcttg gtgcgatgga agtgaaaatg 240
tcctagagag ttgggtgcta gtatgcattt tgatagtctc ctagcctgtg acccaggaca 300
gattccttgc atgcatagga gtttgtcacc atgcaaaatc tggctgttgt tcttctgaga 360
acatggggga gctggactgt caacaatgag ccatatcagg ctgaaactgg gaaactgttc 420
tgctccttca gagtcaagac aagccagaat gagtgtcaaa tttccttcct ctgtgcttcc 480
tcagatgtgg tcagattcat agccttcagt ctattctaat tggtagctag cctggtgtgg 540
acttttgacc acccaccaat caaccaactc ccaccctcac catttactgc acgagtaaag 600
ccacgcttcc taggaactac cattggtaga gatgttactg agtcataggc cctgagatag 660
gaatgatcta taaaggccat ccacgccagt tcttgaaccc ttctacaaca gtccagactc 720
atctttgccc aatctctcct ctgacaatga aagccttagg accaaaaaaa aaaaaaaaaa 780
aaaaaaaaaa aaaa 794

<210> 1722
<211> 1184
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (467)
<223> n equals a,t,g, or c

<400> 1722
ggcacgagca gaggctgatt ctctgtaatc ctaccctccc cttctcccca tcagggccct 60
tcttagcact ctgggtggtt gctccaacca tgcacctgga agcttgggct tgggttacaa 120
tgctctgttt atgtgtttgt ctcccctgat tgcctgccag tgattcttcc ttctcatatc 180
tcagcactta acatagttct tgawatatat taggtgataa aaattgtctc ttcttttagc 240
actggagcca tgagataccc ctgagaagtg gtgagcttgt ggcgtgaaga gctgggtgac 300
ctcctcttcc ttttggtggc ctgagccaga gatgtcactt cctcacctgc tcttttctgc 360
tttcatgtct caagctgcct gggggcttct ttttttaggt ctcttacact cgactaatct 420
gcgatgggcc tagaacccac aatggggaaa ggacagactc ttcaatncgc aggttgggaa 480
acaaaatatt cacctgcaga agaattaaat tggagccttg tctcacatct tatataaaaa 540
tcaactgaaa atggattaag gactttaaca taagatgtga aactagaaga aaacataggg 600
gaaaagcttc ttgacattgg tctgggcaat gatttttttt ttttttaata tatgatccca 660
aagctcaaga aaaaaaaata ggtgaatggg gccaggcacg gtggctcatg cctgtaatcc 720
cagcactttg ggagaccaag gcgggcagat cacttgaggt caggagttca agaccagcct 780
ggccaacatg gtgaaacctc gtctctacta aaaatacaaa aactagccag gcatggtggt 840
gggcacctgc aatcccagct ccttgggagc ctgaggcaga agaatcactt gaacctggga 900
ggcagaggtg gcagtgagcc aagatcgtac cactgcactc ctgcctgggc aacagagtga 960
gcttcgtctc aaataaataa ataaataaat aaataaaaca aaaatacaaa aattagccag 1020
gcatggtagt gcatgactgt aatcccagct attcggtagg ctgaggtggg aggatcaact 1080
gagcccagga ggcagaggtt gcagtgagcc aagatcaagc tattgtattc cagcctgggt 1140
gacagagtga gacactgtct caaaaaaaaa aaaaaaaact cgag 1184

<210> 1723
<211> 450

<212> DNA
<213> Homo sapiens

<400> 1723
ggcacgagac acaactggga tccaagtgta tgcccttgga cacgttgctt aacctctctg 60
tgcatcagtt gggtgataat atctactcct ggcacatttt cagcgttggc tgagttacat 120
gtacagtgct taggccacct gggggagagt aagagtggga tacgtgagga tgtggagtct 180
gttgcatttc tgtctgctgc tggcatcctt cttgtcttgt tttgagttgc tcgcctctgt 240
ctgctcccta gggcgtagat ttgaggaata ttcctggttc ttcccaggca gcaggggctc 300
aggctgtgct ggagtcagct aggctaaggg gctggtctgg catccgcgtt gtcctgtcac 360
ctccttggtg ttttctccag gcctggatct gtgctgtgtg ggcacctgta ttcctccctc 420
ctgccctcac tgattctcca tacctttctt 450

<210> 1724
<211> 1375
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (825)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1346)
<223> n equals a,t,g, or c

<400> 1724
gaattcggca cgagcaacca ttagacattg aagtgatgaa tcgttatccg tgctgcactt 60
agaccgaggc tatccagtag tttatttatg gtggcagtgt atctcaccaa aacactatgc 120
tttccagctt ccctttcagc gacccatgtt ctttcattgc ttctggtcag tgaaatctaa 180
gcaagtattt tttgggtgag tcttccagga aagtgtttag gggtgtggtt aatttttgtt 240
ctgccaggaa aatgagtggg atagctggaa tcatgatagt catggcatct ctgttaatgt 300
ttttggtgcc tttgaacaga ataggaagaa tcccccatct ttgcagatga gttagaaaat 360
ttcctcctct gggtagaagg aatccctcag aatacacagc ccccactcac ttcttggtca 420
ggtgtcttca cagtaaataa actacacaac tgtatggggt ggcctggaca gccatattgg 480
actatgaagc aggaaaggaa gccatgctct aaagatagca aacccaagga gaaaagcagc 540
ctggtccttg ctgaccatgg atgtgccata tcagccctgc attgactact tccagacttc 600
ctttatgtga gagaaaaata acatttattt tgttactgtt atttctgatt tattttacta 660
gcagctaatt gcttgtwaag ttaagactac atgatatgat ttgagaattg ctatcattaa 720
ttaattaagc aattgttcct tgtgaattct gtatcagaaa ttctatgatg tactagagat 780
aaagacagaa tttgcaatct aggatgtgaa agacagatgt gtacncatac aggtaattat 840
agcataatgt catatgcttg ttcagtttgc atgctggata gagacatcta ggcaaaaggt 900
tagtggggac tgtgctttga tagactgcat gcmcccagar ggaaacatat cctaattcat 960
ctccacaaac ggggtacctc tttttaaaaa tgcttcaacc aataataatg ctttattatc 1020
atttagttca gtgattacca aacttatttt agcagccatt agccttcttt gaaagaataa 1080
taatacagaa acacaactta ttagttcaga tgttttggag agatctaact cagattagat 1140
ctaaaagaga atttgctggt taatttaacc acacttactg taagagagtt gggcacagcc 1200
tgttaaggga gtacatagca gggtttttag aaaaagcttc acagaggaag tgatgcttga 1260
ggtgaatctt gaaggatgat tttaagaaaa ggacaaaatg ggaaacagca tactatgctg 1320
aggaaagcgg cacgagcggm acgacngggg gcccgtaccc aatagccctt tggtg 1375

<210> 1725
<211> 328
<212> DNA
<213> Homo sapiens

<400> 1725
ggcacgagta attttctcac ttttgataga ggcatgggta cagagaagta ttttttttta 60
gtttaagtaa acaacagaac aagcattcat atgagacaac tgacacaaac ctgagggaga 120

cactagggag tggaggggac tgtggtgcac tagagaccgt gtatcccttc ttaaggggaa 180
ccgtcccttc tcagctcagc tgactgttgc cttggaggaa ggcggagctg gtatttctgg 240
atcttcctat ttttcaaagg aagttaaaca tctggtgttt tatgtgaaat ctttccattt 300
tctaatatta cctgtttggt cgctgtgc 328

<210> 1726
<211> 649
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (567)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (588)
<223> n equals a,t,g, or c

<400> 1726
ggcacgagct gcccccaaca ccagtctgat gggattgtcc tgaggttgga ctccgttatt 60
ggaattctaa gccccttggg tggttttwat gtgtagccag ggtcaagaac cctgcctgat 120
agagtcattt ggggcacacc tcagcacagg gcccagtaca taggaagccc ggggatgtta 180
gctggtgtga tggtggctgc tggtgtcggc tgatgtacag ctttgtgtga gaggacagct 240
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tgacgtccct acccgaattc tcctggaagt tcctcctgta gcctcctggg tccccaggtg 360
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gggccagggc ttatgcagtc gggtaatggg ctggaggcgg gccttagggt ggaagtcagt 480
gtttctgtcc cctgytgcag caagagcagg ataggacatc aggccccccc ccccccaatt 540
ccccagggaa agaaaaccca accaatncca aacccagctc ccactttntc aaccacagtt 600
gcagagggcc ctgctgcctt ctgtgaaatg atggggctgg acggctcag 649

<210> 1727
<211> 1521
<212> DNA
<213> Homo sapiens

<400> 1727
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atcggagtct gattccttat ctcatgctca gccttgtggc gggcacgtga caagcatcac 180
ctcctgaatt tctcatggca ccggcgcaag gtacaggctc ttgacaaccc tgtgttatgt 240
gtcaggaaac tgaaattgaa atgaattatc catggctaaa tgcattatcc atggctacca 300
gcagggaaat ggaaaatatt tgaaccccag aactgttgat cgagaattct ttcaagtttt 360
atatttggcc tcttctcctt aatttagata ttcagtccta tttccctgat gcctacaatg 420
tgccaaagtc gcttatactt ctttgccttt cgagttgctg ttttcttgtc tcaaaacatc 480
ctactcttga gttctttgtg cggttaatat tttgtcatcc tttagttctc agctgaagtg 540
tcatattctc aggtaggaat tttctaccca cttttccata agcagaatat ccttagtttc 600
tgtctgcttt cacagagtgc ttactgccta tttttaaatt tactacactc tataattatg 660
ttactgatct ggttactgtc acctgatata attatttaat gtgcctggct tagtgtatgt 720
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cttttggatg tcaggctcca aaaacatcac aggagggaaa ataccctgac tttattgttt 1260
gatgaaaatt tgtggattgt gcaattattt tgggtttgta tgatttgctt ttatttactt 1320

tatatattac atacagtata aaatgtacac tttatctact ttttataagt cacaatttta 1380
tgggttttgc tttacttata gcgttttcct caagcaattc ttcagatact gagcatcaga 1440
aaccaagtat ttggaaactg agaaatgtga gctgaacagc tgagtgaatc agacagggcc 1500
ctaatgaaaa aaaaaaaaaa a 1521

<210> 1728
<211> 653
<212> DNA
<213> Homo sapiens

<400> 1728
gacaaaatga ttatgccttt atgtgttgtg tgtatcgtac taaacccagt gctgtgcata 60
gaggaaattt tacagtctat agtgttacat aagtactggg gccttgcata aagtagatat 120
ctggtaatta tttgttgact actccatgtc tagtcaaatg gcactttaat tttatgtttt 180
ggaacagttc agtattaagg attagtaata ggaaaaagac ttaacatttt aattctgtga 240
atttaagtca ttgtcttctg aagatggagt actttaaaag ctccaaggag ttatctggaa 300
aaaaaatgta agcagctttc catcaaaaga cattatggtt aaggtttgta ctgtaggcct 360
ggtgtggtgg ctcacgcctg taatcccagc acattgggag actgagtcgg gtggatcacg 420
aggtcaggag atcgagacca tcctggacaa catggtgaaa ccccgtctct actaaaaata 480
acagaaattt gttgaatgtg gtggtgtgtg cctgtggtct cagctactca ggaggctgag 540
gcaggagaat tgcttgaatc caggaggtgg aggctgcagt gagccaagat ggcgctactg 600
cactctagcc tgggcgacag agtgagactc tgtcccaaaa aaaaaaaaaa aaa 653

<210> 1729
<211> 687
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (664)
<223> n equals a,t,g, or c

<400> 1729
ggcacgagag ccgaggcctg aattgtgcaa agagtcaaac aggaatgcaa tcattcaaaa 60
taaaacagtg tagaagtaca tttgaatgaa acattatggg aataacaccg aaaaaataca 120
aatattttct tgagtctcat gtctttggct cgtgacctgc ggcatcagct ggccaaagag 180
gtcaatcact ggcatgtcaa tcacgcaggc ctctggccat ggtaacagca gtctgtcagc 240
cagtcctcac tgctcctgtc tttgctctcc tgctgccagc tgtggcccga agcccgtctg 300
tcggagcagc cttggagcca gggaaaagga accgtagggt gaagagaggc tgtggggtgc 360
catttatgta gaaactgggc gcctgacttg gctcttttcc caagctgtcc acctaaaaaa 420
tgctatgtcg aatatcacca atgatcagaa ataacagggc agacttcgac tctaaactaa 480
agcttgcaga aagtttgatg tatgtgtgtg actatgctat ggatataaag cctgttatca 540
ttttgaaaag ggggaacttt gtaaggtaag taactttcca aataagtgat taaaatgttg 600
ataagctttt gacacatgtg gaataatttt ttgatagata gttggcctga atttccctta 660
tttntcttgg gaaaaacaaa gcggatt 687

<210> 1730
<211> 548
<212> DNA
<213> Homo sapiens

<400> 1730
ggcacgagcg gcacgagggc gtggtcctaa gcagcacagg atccccctcg gggacattcg 60
cgggccatcc tcctgctccg gttctccctg gggacgctcc acgcctcacc gcagttgtag 120
ggcacagaga caggcctcac caaagacgag gccagctggc tggtcagcat gggaggaggg 180
cgcccaggcc tgggcccgga ggagcagccc tcctcccacg ctgtgggccc tcgctgtgga 240
cccgggatcc tgtccctggt gagctcatgg actccacaag tgacactcca tttcccagat 300
ggagcctgag gctaagaagc ttggttcttg ttctcatcca gggcttgagc ccagtgctga 360
gccgagtctg accctctgtc cgtgggtgca ccggctgagt gcagctgtgg ccccaggctc 420
tgccgcagct ccctggagag caagccgcac ccctggttgc tgccccggct cccagcaacc 480

ctggagatct cttgttgtca cagccacttg ggccttggac gacccacaaa tgagagctaa 540
gcagttgc 548

<210> 1731
<211> 872
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (694)
<223> n equals a,t,g, or c

<400> 1731
ggcacgaggg gaaaaggtga gaggagaagc aaagaagtgg aacaaagact tccaaattaa 60
agagaccact taagaaaaat tacatcaatg tttatactac ttataatgta cctcatttgg 120
gaaggaaagg ctgttagctg ctacttgtta ccacctatca aagcctctgt ggcaacagta 180
ttgacattta atccttggaa gttctgaagt ttttacaaac ttggtggtga ggttgagttg 240
atttgttttg cctcaataag aaatgttgat atatggtggc tggtaagatg gccgaatacg 300
aacagctccg gtctgcagct ccgagcggga tcaacgcaga aggcgggtga tttctgcatt 360
gggtacccgg ctcatctcac tggaactggt tggacagtga gtgcagccca tgaagggtga 420
gctgaagcaa ggtggggtgt tgcctcaccc gggaagtgca ggggattgga gaactccctc 480
tcctagccaa gggaagccac gagagactgt gctgtgagga atggtgctct ccagcccaga 540
tactacgctt ttcccaccat ctttgcaacc cacagaccag gagattgcct tgggtgccta 600
caccaccagg gccctgggat tcaagcacaa aactgggtgg ccatttgggc agacaccaaa 660
ctagctgcag gagtgtttct tcatactcca gtgncacctg gaactccaac aacacagaac 720
cattcactcc cctggaaagg gggcagaagc cagggagcca agtggtctag cccagcagat 780
cccaccccca cggagcccag caagccaaga tccactggct tgaaattgtc gctgccagca 840
cagcagtctg aggtcaacct gggacactcg ag 872

<210> 1732
<211> 1782
<212> DNA
<213> Homo sapiens

<400> 1732
ggcacgagcg gcacgagcac atattgatca taggccatct gtaagcctct tcattatttg 60
atcatcatga atcgtcgagt ctgtgtttctc atgctgttgg tggcctggat tggaggcttt 120
cttcactcat tggttcaatt tctctttatt tatcagctcc ctttctgtgg acccaatgtc 180
attgacaact tcctgtgtga tttgtatccc ttattgaaac ttgcttgcac caatacctat 240
gtcactgggc tttctatgat agctaatggt ggagcgattt gtactgtcac cttcttccct 300
ctcctgcttt cctatggggt catattaccc tctcttaaga ctcagagttt ggaagggaaa 360
tgcaaagctt tctacacctg tgcatcccac atcactgtga tcactttatt ctttgtcccc 420
tgcatcttcc tgtttgcaag gcccaactcc acctttccca ttgataaatc catgactgtg 480
gttttaactt gtataactcc aatgctgaaa ccactaatct atgccctgag gaatgcagaa 540
atgaaaagtg ccatgaggaa actttggagt gaaaaagtaa gcttagctgg aaaagggctg 600
tatccctcat gagaatatga ctttcattct ttcacagaag caaggaataa tttcactatc 660
ctatcagatt acatttctgt tatcattcgc ctttagttat ttagcttact tattctgaag 720
caattatata cattaatatt tatgtaagta caatatgtta agcccattac agaccaagat 780
aattgcatag gtttaacagt gtatagtgtt tttttaatca tactgtgtta agattcttta 840
gtagtaacga tatttagttt tatttcaagc tgtttttaat tttaaaaatc atttatttt 900
cttttgtatt tagtttaaat tgacaataat ttagtatatt tatggagtac aatgtgatgt 960
tcctcgtgcc gaattcggca cgagctcaga gccattgggt agcttgcaaa ggcttgcagg 1020
tgccattaaa aggcagagcc aggacgtaaa ctcagagtgg agaggcttat ctctctccac 1080
tccctgatcg tctcatcccc gaaccctaga ctagagggag ctttataggc tgatgcagaa 1140
gttcccaaac ttgtcggcac actgggagca ccaagggagc tcccaagagc actcatgcct 1200
gtatccaacc ctagagatgg tgaattaatg ggtacagggt atgaccttag ctttggaaat 1260
tttcagattc ccaggtgatc ctaatttgag acaagcttgg gaaatactgg taaagtcata 1320
aagaacaagt tctccgaagc ccacagacct aagttcaaat cccagattct acacttccta 1380
gctgtgtgac cttgggcaaa atgcttgatc actctctgcc ttggtttctc catagcatct 1440
actccacagg gatgttgtga agattaaaga ataaattata aagcacttag aagtgtttgc 1500

cattattggt ttcttaaaac agcaataaac caactaacaa aacagggacc cctggcttct 1560
gtgcctgggt gtccaggagg aagaacatgc tgaaaaatac caccaatata gagagaccac 1620
caatcagaac ttgggctggg aggagttaac ggaatcttca gccatcagag ctggaaaggg 1680
gccttagaca gcatctcttt cctcaccagg tgcaggttgt atgggtaata actccaaaga 1740
agctaaatga cttgtccaaa gccacacagc aataatacac tg 1782

<210> 1733
<211> 702
<212> DNA
<213> Homo sapiens

<400> 1733
ggcacagtca caccgctaaa ttatgaaaga aataattatc aacactttct aattacctaa 60
caaagtaatt tgggattcac cgtggggctg gcgggatggg gaaccaacat ccacttacag 120
ccagggtggt gtacgccaca ccgcgaggga ctggctgtat tggtagtagt ggcgatgggg 180
tgggggctct tgtgcacttt tttgtaccta gcaccccaga agacagaagg agcagcggca 240
gatcttgcct ccactagccc tgccccctag gcctggtggc gcgcgctttg gccactggag 300
gtgaggaaga tcctgggtgg caacgagaga cgtctacaca tagataaggg agcctaccac 360
aggcctgggt ttgctgcggg tttcggtgtc ccccagggac tcctaaactc tggaagtcgc 420
gctagacctc aggaggccgg aaaatgacca cctggcgtcg gtggctccag cagatctgag 480
cccctaggcc ccctgggctc cacgctgagc cgcgctctcg gggcgagtga gcccggggct 540
ctccgcgcat ggggagtgga gaagggaggg ggaggaggag gaaggctggg agggaaagag 600
gatgtgtgtg ttgggggagg gaaggtgcag ccgtctttcc tgggaggaga agcgcgggtt 660
cctggctctc cacgcgcact gctttaatca gacccgtgca gc 702

<210> 1734
<211> 917
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (610)
<223> n equals a,t,g, or c

<400> 1734
gtctatacag agattatatt ttgtagaagg ataatccatg tctcactgcc ctctcaaatc 60
aactcctcaa gctcttatgc aacacataca cacacacaca tttaccaggt gtgactaaag 120
tagataggtt gatcatttac atgtaaaaat aaacatttag tcacctccca cactaacagg 180
cccatgctga acctttgtat cactttgctc tttttatcag tgaccttgac caatatccac 240
tcaaaccact cctcctactc caactacttg ctgtgatggg agcaacacac acacacacac 300
acacacacac acatacacac gcacatacca catacccacc catacaccca cagtcccttg 360
gcagtaaagt aactaggatg acccagaaga cccatccccc cactgagaag tgtagaagcc 420
atgagtttca cctttttga aacatctgct gatttacatt tgctaagata gttatgtatt 480
agctagccac ctaacagtga aaataatgac atagaaggaa aggggagaat aaggcaactt 540
tattcctttt ccatccagtc cttccttctt cgcctgttgg tagaatgtgt ttgtgtcaat 600
aagtgaaatn aaaacagttg agtacaagcc aggtgcggtg ctcacgcctg ttaatcccag 660
cactttggaa ggccgaggca ggtggatcac ttgaggtcag gtgttcgagg ccagcctggc 720
caacatggtg aaaccctcat ctctactaaa aataccaaaa ttagctgagt gtggtgcatg 780
cacctgtagt cccagatatt aagaggtgag gcaggagaac cgcttgaacc caggaggcag 840
aggttaccgt gagccgagat tgtgccactg catcttgcct gggcaatgga gcaagactcc 900
atctcaaaaa aaaaaaa 917

<210> 1735
<211> 1260
<212> DNA
<213> Homo sapiens

<400> 1735
ggcacgaggg agggcattct cagcacctct gtgaaatgcc cctgaaaatg catccagaag 60
atgcatcccc tactgtttta tttggtgaag ttattccttg aggccagaga taccacctgc 120

attattatgt cctgcccgac gcctggcatc caggaggctc tcaaaatcac ttgcagttga 180
cataggtgaa tatcagcatg tgcgccttgt gttaaatgcg ctggacacaa gaaccagaca 240
gagcagttct atcttaaggg atattcaaga ggtgcctctt acctgtgggg tcagaggaca 300
ggtcttagga ttgtgaggtc aacccttgtc taaggtttca ctgggaaatt agggtcgggt 360
ggacttctcc tgggccctca gtcctcaggg tcaatctcat gagcatcagc tcttctgcct 420
cctccctctt gaaagtgaga gatgagatgg taggggaggc atccatgagc acttggagga 480
gaaacaggta ctggggctcc tgctcacagc atcataggaa ttcctctgta tggcccaggt 540
gcttgggatg tcaattctga cctaagagag tgttccaaac ctttgtgtct caaatgtggt 600
ccaaggaccc atagcatctg catcacgtgg gagctcacta gaaattcaga atctcaggtc 660
tcatgccaaa cccagtgaat cagagtctgt atcttaagat ccccagggga tttgagtgca 720
ccctaaagtt gagaagcact gctcgaaatt gggtcctagt agatatttct cctccatcct 780
accctccata tgtggtcttg ccttatgccc tcaagggccc tggcacctgt tgccctccga 840
caagcctggg gggccgcctt gaaggtacat atctcattga gacaggagtg tgcctcacag 900
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tgggcactgt gcaggccctt gcagtgagat gactcagctc caggtcctgc ctgcagggcc 1020
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atataaaatg tgattagaca agaaccaaga ggccagaagt tctgggaggc acaatgcctt 1140
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caggtaagac tggttacatg tatgtgggga aggacaaggc aaagcggcag gaaattacat 1260

<210> 1736
<211> 859
<212> DNA
<213> Homo sapiens

<400> 1736
gattgattag tttaactggc caatacttgt tgagtggctt acaagactat agtagttaaa 60
agcatgagtt ttgttttatc acttaaatcc tggcaaggac ttattaacca ttcgactctg 120
ggcagggtta cttaatatct ctgcctcaca acattttccg tatctctaaa atggggttgt 180
tcaacaagaa atatactcaa gtttaacatg gcaacaatgt tcaccaaaat cactaccagt 240
atcgtctttg gtctgtctct ggcattgcct atttcaacac gggcatgatc aatgtgcatg 300
atcaatgaca atgtgatagc aagggtctcc atcatatcaa gacattgtta caatgtcagt 360
aatacaaagc agtttggaat ttattgttaa taacataata ttcacttcca aaaacaggta 420
agcaatttag atctaatcta gggtgaaaaa acctacttat gggctttata cattgaagat 480
gcatccctta gttgaatatt atgacagaaa aatgttatca atgctgacat taaaaactgt 540
tattatgtgc caattattag gaaattttaa ataatttaac aggataagat taatagttaa 600
accgaacact aagaaagaga gtattagcta cttgacgaag aacattgtat atttttgag 660
actatgaatt tttataaaat gtcaaataat acaaagcaaa atactactaa aatgagatat 720
tataattctc atctttatgg aactgcttag tttcatactc ataacatata taaaataata 780
attaagaatt acagaggcca agcatggtgg ctcatgcctt taatcccaag cactctgaga 840
ggctgaggag ggcagattg 859

<210> 1737
<211> 1516
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1025)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1144)
<223> n equals a,t,g, or c

<400> 1737
gaattcggca cgagaaagaa tgaactgttt atgaaagaaa ccttttgaaa gacagaatat 60
ttttgcctgt gggccaaagc tgaggcagga aaacaaaggg ctctttcaaa ggcttagaat 120
atgatggagg atggattctg actttccaac tacaaaaata atgatgcttt tagcatcaat 180

acctgcatta ctccagggag ttgtaaatat actttacaga cacaggctgg gcctttccaa 240
ctttttacct cagtgctctt tgaactcctt aaaggggagt aatgttggcc ccaatttgca 300
cactgagaaa ctgaggcaga agaaatctaa gcaatttgtc ccatgccacc agataactta 360
taagtgaagt caagaataga acaaactgaa actgaatgct tccatgacac aggagcatct 420
gccatctgga atagttcctt ctttttctct agttgatctc tttctttttct gcttttatct 480
ttcattttct gattcattaa ctcttagctc ttgtcaatga attgaggcca gtgtgagtgt 540
tgacatgtcc atcagaaagt ctgtgttggt ccaggtgaca aagaatctac agcttgtatc 600
agccagcctg tgcaggttgt tgcagttcct ttgaacaata ttactagcaa aactcatctt 660
gaaaacaata ttctttcatc ctaacctatt ttgtwcttgc agaaacacta ctgtaaagta 720
cagatgctcc ttgacttaca atacagttat atcctgacga accatcataa gttgaaaata 780
tcctagttag aaatatattt tatgaaccta acctattgaa catcataact tagcctcacc 840
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aagcctawtt tattatatgg tgttgaatat ttcatgtaat ttattgaata ctgtatagaa 960
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ctttngcatc gtcatgaagt tgagaaagtc tacgttggaa tctacagctt gtgtaaacca 1080
gcttgtgcag cttgttgctg ttcctttgaa caatargata ttrgcaraac ttatcttgaa 1140
aacnagataa accatcacaa attgggtatt gtgtgtatga aattttacat ttgtacattt 1200
aaaaaatatc cggtgtttgg ctttttaaaa aaataaatgg tacctaaata gttcttaatt 1260
tccccttatg ggtagtctcc tagctgttaa atgtacattt atttactcat tcatttttt 1320
atttgacagc tatttgtttt gaatttactt ttggcacagc actgggcttt gtaatgaata 1380
ctgtacaaca gatcaaaatc ttatagaaga ttttaataaa gattttataa agattttaat 1440
aaagattaag tctttaagat ttaaaaaaat tttaatttct ttttttttt ttttttttt 1500
ttttagctag tctcga 1516

<210> 1738
<211> 508
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (255)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (473)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (502)
<223> n equals a,t,g, or c

<400> 1738
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ttttttttt gactaatatt tgtattggta agaggtgctt tggaatttgc acacatgarg 120
aaataaagag ctttttcct ctacatttct aatattcagc tgctctctta cctttcttgt 180
ccaggtattt tgacttttaa attctctagg tggtttctct ttctctttct ctttctttct 240
tcctttcttt ctttnctttc tttctctttc tttcttcttt cttttctttc tttcctttct 300
ttccctctct ctctctttct ttctttcctt ccttccttct ctctttcttt ctttcttgac 360
caagtctcac tcttttgccc aggctgaagt gcagtagtgt gatctcagct cactgcaacc 420
tccatctcct gggttcaagc gattctcctg cctcaggctc tcgaggggg ggnccggtac 480
ccaattcgcc cttaataatg antcggaa 508

<210> 1739
<211> 311
<212> DNA
<213> Homo sapiens

<400> 1739

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aaacttcttg gctccccccа ccccattctc caacctcacc tctttgcatc cctccatccc 120
tcgcccctca tagtccaggg atcctgaaca cctgtgcttc cccaaacctc tcccgcttcc 180
aggcctctgc acacgcagct ccctctgctt ctccagccct tcagaaatgg gccagtgaca 240
gagctctgtg cttcccacac cgtcgcctct tccggggttc agaggattca aggccccact 300
tcccagtctc c 311

<210> 1740
<211> 1338
<212> DNA
<213> Homo sapiens

<400> 1740
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gctgtatctc gtttcctgcc atgcctttgt gcctagcaca gtgccaagca cacggcaggt 120
atctgaacag tgtgggaaga gaaaaggtgg aggggagatg gttgggggta gactgtgaga 180
gtggaggtgg ctcaacgctc ccacccccaa cctcacacac agcaccctta gcccaggcac 240
tgatcccagg agtctaagaa gctgattaga actgcccatg gctgcagcta acctcggaac 300
tatgccccac cacctgctgt crtctccctg cccccactcc tacttccctc tctcctccct 360
ccccaggggt ccggggcagc ctccccctcc cccaccccat ggtgagaaat cccaaagact 420
cctgggcctt tctctgctgc ccggctttcc cgcctccсct ttttctttct cttccttctg 480
ctttgcctca cattcaatct ctccctcccc cagcctggtg aatccaaact gaaaaaaaaa 540
aaaaaaaaaa aaggcccaca caacagcttc aacagtgaaa aataaccaat ttaaggagta 600
atcgctgctg taatgattgt ctaagccctg agtcactgca gaaaatcgga ctgaagctct 660
gggactccca ggctccctga gagtgtcata tgggtttttg tttttgtttt tttaaatatc 720
caggacctca gtgtctccat ctgtaaaatg gaaggaatat tatcagccca aaggaactga 780
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ggagtgatgg aaagtcagct ctggaagaga ctagacacct catcttgccc tatgctctca 1080
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gcagagccca aattagtggc agagcccaca ttagaaaaca ggtgccttga ctcctgctcc 1200
agtgctcttt ctttctttct ttctttttтt agacggaatc ttgctctgct gcccaggctg 1260
gagtgcagtg gcatgatctc agctcactgc agtctctgcc tcmtgggttc aagtgattct 1320
cctgcctcag cctctcga 1338

<210> 1741
<211> 1736
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (369)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (605)
<223> n equals a,t,g, or c

<400> 1741
gaattcggca cgaggaggcc ccacaatgtc ccccaactgc cacttgctgg agaccagacc 60
ctcagcctcc ctgcttctgc tgggcatccc tctgctcagg ggagcatctt gaggctatac 120
aggtctcagg tgcagctggc agcaaagaga cataggagga ggtggttgaa cccaccctgc 180
aatgtccaag gtccaggtta aaccctgaga gtgggtgagt gtgtctggtc ctgtgactca 240
gtttccctac ctgtaaaaca gagcttcaac gagatgaacg atagtcctga gcataacagt 300
ccacaggggc ccacgagccg cttctgcgtc ccaagccctc gtttctgcat ccwgtctyca 360
tctgctcanc tctgaatgaa cccatggtcc cctggaggac takgtgaaga aataccctaa 420
acacctcccc aggcatcgag ctcatgcctc cagcacaagg cctggggctg taacgcaggg 480

agctgggctc cagcttgaat gctgctctty ctttctttct ttttttttaa aaggggtgaa 540
atccacataa cacaaagtga accactttaa agtgaacact ttcatggcgt gtggtacatt 600
cacanattca tggatgctcg tctcctatac ctgagctata tcctgcctgt cacaattcca 660
taggaagtaa aaccagccac tttctgtaaa tgggatctta agcagaactc taacactgtg 720
cacaraaagt gtgactgtgc tgggttcgag gaaracaggg tctggtctgt gtccccagcc 780
gaatctcatg acaaattgta attcccarcg tgaagggarg gamctggtgg gaartgatgg 840
gatcatgggg aargattttc ccctcgctgt tctcatgata gggagtgcgt tctcgtgaga 900
tctggtggtt taaaattgtg tagtgcttcc cctcctttct ctgtctctct cccgctcgac 960
cgtgtgaggg ccttgcccac tccccttca cctgcgtcat gattgtaagt ttcctgaggc 1020
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acccctggac cagagagtct gggtgaggaa gtgggggcgg gatgtggggc ctgatctctg 1440
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tccggggcag aaatgggagc tggagatgtt tgtggctgtt cccgtgagga tgctccagcc 1560
ccaggaggcc gtcggggaga ggccggtgct gtgtggaacc acacatgtgt gagccagtca 1620
ggagactgct gtgtcagtca ggaaaggcca acacagtgca ctgtcctcac actgggagga 1680
ccggcttccc accccactcc agggctttgt ggtaagcctg acgcacccca ctcgta 1736

<210> 1742
<211> 522
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (436)
<223> n equals a,t,g, or c

<400> 1742
tgtaattgga aatatcaact catgttgaat gtgtttgctg tacctgttta tgttttattg 60
attattttct gggagaggag ggctaaaaaa tacactgcag agaatagaca atttatgcta 120
taaatataat tgcaaatgcc atgaattaaa actgctgctg gatagttcaa aacaatggtg 180
ttttgagaac ctgaccaaag gcagtctttc caagaatcag tcccgtattc atcaagtgca 240
ctcatagaga ggcagggctc cgttcttaat tcctccctaa atatctgatt cagacagaga 300
aaatgtgtct catcttcctt ccccattctc agttcctatc ccttgtcaac gcaaacacaa 360
tttatgcaaa tattctttct ttgtttcttt cttctttctt tctttccttc ttttttttt 420
tttgatggag tctcantctg tcgcccaggc tggagtgcag tggcgcagtc tcggctcact 480
gcaacctcca cctcctgggt tcaacctctc ctgcctcagc ct 522

<210> 1743
<211> 591
<212> DNA
<213> Homo sapiens

<400> 1743
ggcacgagaa agaactatta ttactcccgt tttacagatg aagagacaga ggcacagaga 60
ggtcaagcaa gcggcccaag gtcacagggc taagacagaa cagagccaag gtctgaggcc 120
aggcaaccgg actccagcat tctaaacctc catgcagtcc tgcctctctc tcttcagctc 180
atacccaggt aagcaggcca agctcaaaaa tagcagccaa cgccattttc aaactcatgc 240
tttatgaatc ttaaaatact tacttgtttc ctagtttctt acacctttcc atcatctcgg 300
tcagcagagc ctattatgtt aaaaataata ataattaaaa aatcaggttg gaggagctaa 360
agtaacattt ctaagagatt tccaaagtcg aactctaaaa tgaatgtagc cacatgtcca 420
ttaagataat tctcagtgtc tggtagggat ggggaggctt ggggagaaaa aaattcactt 480
tcattgcatt tagtgtaata aatagaagga gggggctggg tacagtggct cgcacctata 540
attctagcat tttggtagac cgaggcaggt ggatcacttg aggtcaagag c 591

<210> 1744

<211> 610
<212> DNA
<213> Homo sapiens

<400> 1744
ggcacgaggg aggaaagagg gtggaatctg gacagtatga aggatttgta ttgtacctgt 60
aatgtttgat gtctgaagct gggtggtggg catggctgtt tgttattctc catccttttg 120
gtatgcctga tacatttcat aataatttta aaaaggacaa gactactgca gagaaatgca 180
tagagtgagc tctgtttggg tttttaaaat gattcctaca tctatgcttg cagatgtaag 240
caccagccct ggaaaacatt gcaagggatt cttagtaggc ccaagctttg ggaaagggcc 300
aaggggggctg gggagttgat taggagggga tacatgcttt ttcctgctgc cttttgaatt 360
ttgtaccaca cgtagtatta cttattaatt aaaaaataat ctgaactagc caggcgtggt 420
ggcacatacc tagtctcagt tacttggaag gctgaggcag gaggatcact tgagcccagg 480
tggttgcggc cagcctgggc aacatagtga gaccctgtct ctttagaaaa aacaggccag 540
gcatggtggc tcacacctgt aatcccagca ctttgggagg ctgaggtggg tggatcacct 600
gaggtcggga 610

<210> 1745
<211> 695
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (25)
<223> n equals a,t,g, or c

<400> 1745
tngccgcccg ctctagaact agtgnacccc cgggctgcag gaattcggca cgagcccacc 60
tcagcctccc tagtagttgg gattacaggt gctcaccacc acactcatct aatttttgta 120
tttttagttg gccatgttgg ccaggcttct cttgaactcc tgaccctcaa atgttctgcc 180
caccttggcc tctcaaagtg ctgggattac aggtgtgagc caccgcacca ggcctaaaat 240
taaatggatt ccggttgcag gtctttggct caggctgttt tccctgatgt ttctgcaggt 300
cagttactta tggactgatg tttctgcagg tcagttactt atgtggttgt gcagatggcc 360
aaccacagtg gccggttact tttctcaggg cacctgcctt ctagaaatgt atcctctctc 420
ctctcccttt tcctctttct gtcagagaat agcaggggtt gtggaggaaa gctgaattct 480
aaattagtca tttcgataat taataaggct agctagaggt ttgatgagaa aaaaattgct 540
gctttttttt gtaagtgtaa tgtggttaga tataaagtat ccaaaattta gacagatctc 600
aaaatccaaa attttatttt tccctcaaag ccatgcttaa gtttactcag aataaccaca 660
gcatttttct gaggctctgc aaataccttc tcgag 695

<210> 1746
<211> 568
<212> DNA
<213> Homo sapiens

<400> 1746
gcacatagtg attttctcct gtgctttgtc tccagggaca ttggctgctg tcttctgacc 60
caccctgtgt ggctttggcg tctcctgtga cctaccagta tgggtcttgg cctcatcctg 120
cctctttgtc tttctggccc accacccaca gcttgaatct caggctccaa cagttgcctg 180
acccccagat tctgatgaca gcctacctac ttgttcttca ggccctcacc agactcactg 240
cccagacaca ccacacagga gaacatgaaa gggtgaatga atctttcatc atttgatgac 300
caagttggca ttcttttaca ttccagccac cagaggaagg tgtattttaa cacaattgcc 360
ctcacatcct ccttaacagg atttacataa gtttattaac acatatgttt ctacaaaatc 420
aagttttgag aaccattttt atacactgat ctgggacatt ttggggatat gaaattaact 480
ttagcacaca cagcaagaag aaaaccgaac aacaaattct acaaacacca aatttgctgt 540

gaaatttaca tttcagattc tcaagaaa 568

<210> 1747
<211> 468
<212> DNA
<213> Homo sapiens

<400> 1747
ggcacgagag gccctggggt ggcggggaga ggaacaggga gagcatgaga cagacccaca 60
gggctgaggc caaccctgct tttatttcac aagagcttct cgatggctga caggagctcg 120
ggtttcagga tggagtccgg ctcggccccc gcggccttga tgtcctccag cacagccatg 180
tcccacgaga aggtcaggag ggcagagggc acctgcggta ggggtaggcc gtcactctga 240
gaccgagagt cggcccttgc cgcggcaggg aactcagcgg gcaacctggg cgcggggatg 300
ccccggcctg gaagccatct cagctggtgg aggctgtggc tcgcacccag gcctcctgcc 360
ctgctcctcc gggactccag gacctaagcc taaacctact gcactagtaa cgcacgtcac 420
cgctcccatt tgatggggaa actgaggcgt ggagtagtta tgaacttg 468

<210> 1748
<211> 1138
<212> DNA
<213> Homo sapiens

<400> 1748
ggcacgagcg agtattgagt tcattaatgg ttattatcat cgtgtttaat cagtaagtga 60
ttttaacttt cttcattatc ccctcctctt gtgtaactgt ggataagtag ttcccatgga 120
ttgcttcctc tgtcttctta gcgagaaata tcggtggcta tgagatcata gctcaacagc 180
ttcaattctg tgctcttcct ctgagcaatt tttcttcttt tcagactttt tccttttctt 240
ttcccttccc tttttttcat gttcttcctc tgcaataaga aagaatttag aaaaaggaat 300
gtaaatacac catttggaaa aagtagaaat taacttcggt tataagaaga cttgggtgct 360
cactaatgta acttttcctg ttggctagga aagggattac acctagcgaa aggagacaga 420
gcaaggatga gaggacattt gcccactgag aagagactag tgaacactcg tttcttccta 480
ggtaatgttt tggttcagta tcgcaaaggc taatgacatc ttttgtaagg tgtgaactgc 540
ctctgaacta agaggcatta agatgatgag cagaaagagc actaagattg atgttaaaat 600
taatggcacg tgagaaacat gtcacatata aagacagaga aagctgtaga gggctgggtg 660
ctcaagacaa cttgtgatag attttgggag gccactgtcc acagactggg atccataagc 720
cttaggggca ttgtcacttg gtctggtaac ccatctcagt ctgttctggg gtccctggac 780
ctactgtgtg agatatcaac ataccatttc ttaggcacta gttaatattt cctgaaataa 840
atatgttaaa cagtccaggt gcaatggatc atgcctgtaa ttccagcact ttgggaggct 900
gaggtgggca gattacttga acccaggagt tcaaaaccag cccggccaac agggcgaaat 960
cccatctcta ctaaaaatta aaaaattagt caggcatggt ggcgcgtctg taataccagc 1020
tactcagggg gctgaggcag gataattgct tgaaactggg aggtggagat tgcagagagc 1080
tgagatagca ccactgtact ccagcctcga caaagagaga ctttgtcaaa aaaaaaaa 1138

<210> 1749
<211> 898
<212> DNA
<213> Homo sapiens

<400> 1749
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cctatggtct ttctggagat gtcttctcta gactgagcag ccaatgtgtt gctatgaagc 120
tctggctagc tgggtaatgc acttccttgt atttgctctt cctcgttcct tgtctcatgt 180
ctccttttcc ctgggattct accctacact gaagtaatag cacacaaatt tttgtctcaa 240
gttctgttgt ctagggaagc caggctaaga catggttcaa tgggtgtcct tagaaagcag 300
acctccaaaa gagaactttg ggtctccacc gatggtggca aactgggtgg cccggattcc 360
tggcatgcag tgatagtaca attgccaata tgttatgtgg tataggcaga aggcaaggta 420
ttggcatatc aagtggctgt gtacttgatc agtacagagg gaacgataat cataaggatt 480
gtgttacatg gtggctgcct ttgatggctt ggaagatttg caaaaaggca taacagactc 540
aggaaagcta attgcccact taaaatatgc tgtgaaagtc agagggcctc tatggtagcc 600
ttccaaatcc tcttatctac tgcagctgca gggcaaatga tggaggaaga aaatcatgtt 660
cagggtttca tggtataggg ttgcaaacct acaaaggaga aaaaattcac agccttaaaa 720

tgtctcctgt gtcaatgtga aggctttgat agggaaagag taggaacctg aaacctgcaa 780
ggtggacatt tgagtggaca aatctaataa tctgaatgtc caaatttccc tgcctctctg 840
gagattatgc agtctcctca gttggagact atgcagtata tcactcgatg tactataa 898

<210> 1750
<211> 764
<212> DNA
<213> Homo sapiens

<400> 1750
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tgcttcacaa gccaataaat tctaataaca aaaggcaaag gaaaaagttc cctatagaag 120
ctaaggattt tccaaagcct aatgctcatt ttttatatcc ttctttgtat ggtcaaaggt 180
tgattcttcc tttaccagac acaaaaaagg gcttaattaa aaatttgaaa tcaaatttta 240
gagatataaa ctataaataa atacatttgc ctttcaaatt tttagaacat tatcctagtt 300
aattcaaatt tttttatttg agatgaaagg cgatttaagc taattttcat tggatcattt 360
attattatta ttattttgca gtgtattagt taactactgt tatataacaa attaccccaa 420
aacttaatgg ctcacagcat caaaaatata ttagctcata gtttttgtgg gttaggaatc 480
tgggtgctgt atgtctagtg ctcagggtcc ttcacaagat tgccatcaag ttgtcgactg 540
gggatgtagt catctgaagg ctcacgtgag tgagtatcaa attccaagct cactcacttt 600
gttcaagttt ttgacatctg ctggctggag accacttgtt tgccttgtgg gcctctccac 660
agagtagttt acaacatggc aacagcctct ctagttagta tgagcaagcc ccagaagcat 720
atttgccata ttctaattat tagatacaaa tcaataggct cgag 764

<210> 1751
<211> 417
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (386)
<223> n equals a,t,g, or c

<400> 1751
ggcacgaggg aaacttaccc aggtttctat aaactagact gcaatctgca ccagtatcta 60
ccagcgctag gacctgctgt acattagtgg ggaaccagtg gattgccaac tccgcatgtg 120
gcctccctcc actcccacct ccttcacccc ctgctgcccc aagttgggca cctcggccat 180
ttccctaatc aaacaagaaa ggctccatat ctccacccaa ctgcaaatag tccttgagct 240
ccagcgcctg ggcaggatta gattgaacaa cactgttttg ccccctcttg gtcattttcc 300
agaatttttg ctctggggac aattgactcc acagagccaa gggcattcca ttgggttgcc 360
tgtyaatttc tctcgagggg gggccngtaa ccaattggcc tatagtgaat cgtatta 417

<210> 1752
<211> 817
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (600)

<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (683)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (685)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (728)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (811)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (814)
<223> n equals a,t,g, or c

<400> 1752
atantgnatc actcattgga acattagctg gagctccacc gcggtggcgg ccgctctaga 60
actagtggat cccccgggct gcaggaattc ggcacgagct cgtgccgaat tcggcacgag 120
aaattcatgg gagtgggatt attaaataga ataatatgaa caattgtatg gcttatgttt 180
gccttattgt attcccaaag agctgtaaca ttttatagca tcaccacttg ggcaggggta 240
ttacctgttg ttgctaattt agtaagtaga agagagagat caaagtttct ctaatttgtg 300
tttgtgtaat ttatctgtat actttcttca tttatataaa taaatgtctt cactttggga 360
ggctgaggcg ggcagatcac ctgaggtcag gagttcgaga caagcctggc caacatggta 420
aaaccccgtc cctactaaaa atacaaaaat tagttggatg tggtggctca catctgtagt 480
cccagctact agggaggctg aggcactaga atcacttgaa cccgggaggc ggaggttgcg 540
gtgagctgag ttcacagcct gggcgacaag agttaaactc catctcaaaa aaaaaaaaan 600
aaaaaaactc gagggggggc ccggtaccca attcgcccta tagtgagtcg tattacaatt 660
cactggccgc gttttacaac gtngngactg ggaaaaccct ggcgtaccca acttaatcgc 720
cttgcagnac atccccttcc gccagctggc gtaatagcga aaaggcccgg accgatcggc 780
ctttccaaca gtgccaacct gaatggcgaa nggnaaa 817

<210> 1753
<211> 1653
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1111)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1613)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1625)

<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1631)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1637)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1651)
<223> n equals a,t,g, or c

<400> 1753
gcaaccttgc agagtcagaa tcctgatcag cagttttgac cagcacatca agagtggctt 60
tacctcccag gcattgatcc agcattagtc aagctacaag acactgatgt agaaaaccat 120
aatgtcagtt tactaatgta gaataagaaa taaaatctca gaagacctga gctctcctgt 180
cagcatgact tgcacttgta cttttccttt ttgtagagaa gctaaattat aatcagaaag 240
ttgttttggt gagcttggaa tcagaaaata ggagtttaag tcatctgttc aacatgcagc 300
tttcctcagc tgtgatagct ttttcctgct gtccagtctt catgtggagc ctggtcaata 360
gcaccagaat tctaagtctg ctggccaagg tgctgcctyc tgcagagaga gaaagcccat 420
caaagttgac ttcagtgact ccccccttcac tcacccctca tcttycacgg gcaaccaact 480
ycctttttga ttgacacatc atttctttac atacattaat gccttccata ttaccacaga 540
gagtttggta gactggaaat cattttattt ctttgatcta cttcatcttt ctctgcattg 600
agcctttgcg tactaattta tagctatttt ctcacaggat agtctatttc cattatatct 660
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ggcacagttt atttgtttta ttctatatgc tgatagtatc atcttttcca tctttagatg 780
ttttatctca ttcagagtga gaggggcact tggtcagtcc tttttgcatc tcaatagttg 840
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ggaattatta ggcccagtca agactaacag ttcttgactc atagttccaa atcacagttc 960
caagatttcc ttaacctttc tgatcctcac ttccctccca aaaaagtaag aatggctata 1020
attacctacc tcatggaaat tataaggctt cagcaagatt aaatgtactc atttatttaa 1080
catgcatagt aagaactata aatgttaatt nattcttact tacattarga tactgactta 1140
tgaaacagag attaaacaca ttctgcaaaa ggactggtat tgacaggctt tgattctaat 1200
agctcaaaag ataggccatg gcttgctaga gaaaatgaaa ggatactcaa ggctcattag 1260
attaaaaggc tgctaatgtt ctctaagctg taagtagatt tttgcccaca tttatgaagg 1320
ttgatttcta atcagattag aaatggcata ggctggtggc gtcatctcag agctgccaca 1380
gcattctcag gagactcagc catatcatgt tgggttgctc taagaacaca cagagacctt 1440
tatgcttttt cacaaaagca tactctttcc ctggagtgtg taactctatg tgttgacctt 1500
tagtgggata agttcttaca atggagctat tctgggtaca aaacatcact actctgtgag 1560
attttggaag ataacactgt ttgctgattt tacaagcccg ctcgggggggg ggnccggaac 1620
ccggngcggt ncccgtncct ttccccccccc ncg 1653

<210> 1754
<211> 713
<212> DNA
<213> Homo sapiens

<400> 1754
tgcaggaatt cggcacgagg agactcttaa cccccgcaaa attatccagg ttaaaaacat 60
acgtgagctt cagaaagggt gaacatagcc atggctgaga atcgttgtgg attatcatga 120
taggaaattg acatgcttat gggtgttctg tcctttgggg ttgatgtcag ggagccaagt 180
ggttgcacta tttctgctgt gtgtccgaat ttctaaagta atatccgtgt attgtttgga 240
gagcggactt ttttgcttta ctcctacttt tacagaaaag aatttttttt ctcaagcaac 300
aaaacatttg gtctctggtg tcaaagagga ctttattata ttagaattat aaagctttag 360
ttaggaataa gtgttggaca ttattaaatc aatttactgc aggctgggca tggtggctca 420
cgcctgtaat cccagccctt tgggaggcca agactagtag tctccaattc cattccatca 480

cttgaggcca tgagttcaag accagtctgg ccattgtggt gaaactccgt ctctactaaa 540
gacataaaaa ttagcatggt ggcctgcacc tataatccca gctactccgg aggctgaggc 600
aggagaatca cttgaatcca tgaggcagag gctgcaatga gccaagatcc tgccactgca 660
ctctagccta ggcgacagcg ccagactttg tctcaaaaaa aaaaaaaaaa aac 713

<210> 1755
<211> 318
<212> DNA
<213> Homo sapiens

<400> 1755
ggcacgaggt gccccaccct tcactctctc cccgcataac tctcttccgc atgtatatgt 60
gtatccatgt ctgtctgtct gcttcttacc atctctcctg aatctgccta tgactttctt 120
tctacccatt cctacaaatg cttgcagtct tctgttttct aagtcccaac agcttattgt 180
ttttcatttt ctggagcagg gtctacaggt ttccaccaaa cagaagatct cgccctggga 240
tctttttgag gggttgaagc cgtcagcacc actctcttgg ggctggtttg gaacagtccg 300
agtggaccgg cgagtggc 318

<210> 1756
<211> 1860
<212> DNA
<213> Homo sapiens

<400> 1756
gtaaatactg aaatgtcaaa gtgaaatctc ctaactacat ctcactatag ccacagattt 60
ccaacattac ttcatttttg ttatactttg gatgactttt tacccagact cctttgtccc 120
atttttaaa aggacagaca cggtacattg agcttaattt taatgttctc tctaaaatgc 180
taataattat ggctcaatta ttacagtggt tttcttgttg gagttttctc cctttagctg 240
ctctaaattg tgagtggtat agagtcacag agcttacttg attattcacc cagtccactg 300
ctgatgctac gtgtttcttc aggacctgtc ctttagaata cttcccagag gcaagcacat 360
ggttgcctat attaaagcca cctgtatatc acttgctaag tcctctttgt caacacttgc 420
cctcattgtg actacagaat cacttttttct agtttttaaa attgttatcg taagactgtg 480
cttggaaata ttcccaggga ttagtatgat gattttgttg gggtgtttgg agatacattt 540
gccaatgctg tacatgtaaa atttccatga caacttataa aataaatact ttgatctctt 600
tatcagccat caatgttaac atataaaatc agctgaatta aagttaagac tatgtaaaca 660
gatgactaga accycttctt aagtaaaaat atgtggtggt ycccttaatt acktgycatt 720
ggaaatttgt aatyccttte aattttctga acatatgcac aattttacta ttctaaaaaa 780
ataactattc ataactactc acttattttc tcctttcacg cacttctaat ttttggaaga 840
agtgatgggc atttgttccc tataactctt gccatctata tccacctgga tccgtagcaa 900
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acacagtaac tcaattcttt ctttgctttc atcttttgca atcatctacc tccctatgca 1020
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gccagagtcc acctatgagt ggctctggta agagattgga aggccgaaga ttctggtagt 1560
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ttgtaaatac ttaaggtggt ttttgttcct ggttggatcc taaagaacac aaaatcattc 1860

<210> 1757
<211> 1120
<212> DNA
<213> Homo sapiens

<400> 1757
gggctgcagg aattcggcac gaggcagcag agagagcctg ggttggagcc atgaggctgc 60
ccctgcgtca ctctgcctcc ttggaagctt ctgtgtctcg ggttcttcat acgcccagtg 120
gcagggatgg accaggcacc ccttgcaatc cttctggaca aatgtgccac tgtcctatga 180
aaataaaagg acaccactca agctccagga ggcagaacct taactcaaat ctgagccaat 240
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tttttggtaa atgctttatt ttggaaatgg gtttttgttg ttgtttccct gaagagagtt 360
cagatcagca aagcaagtag ctttggagaa gacaccttta gacgaggact cctgtgaatc 420
agcaggacag cgtagaggga cattaggtga gccacagggt ggagcaggat gggagggcag 480
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gtcacactct ttaaaaatgg gtcccaaagc aaagctctca aaacttcatt aaaagaaaag 660
tcttacattt gacaagtgac ctggacagag gagctaccag gacattggcc cccttgctgt 720
gcacctgcac tgtgcatcac agctcacgtc gtgtttgtta cactttgtca cctcacattt 780
tattataaag gtcattcccg tgttaaaaag agagcgcggt atgacagcgc ctagtgaatt 840
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aaactgggag caaatcaaag taaaaatgta gggatagggt gttgctttct tttaaaaaga 960
taatgctgtc aggattaaag tgagaagaat ttaattttca tttcagcctg aacactagtt 1020
ttactttcag aaaggttctt ggtgccaagc tgtgacactt ttgcctttgt gggtatacac 1080
acttggtacc cttgcttagc actgtggaag aggaagtctc 1120

<210> 1758
<211> 1068
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1060)
<223> n equals a,t,g, or c

<400> 1758
gctttgaccg gacagacaga tacttagata gctggcaaaa cattatttct aggtatgttt 60
gtgaatattt ttccagaaaa gtttaatatt taaatcagta aactcagtag acaaaaccta 120
ccctggacaa cgcgagtgag cctcgtccaa tcccttgagg ccccagaaga ataaaaaaag 180
aggaagggtg catttactct ctcttcagtt ggaacatcta tgctctcctg cctcagacat 240
tggacatgga atctcctggt tctcaggcct ttggcctcca tggttacacc agcaccccac 300
ctggttcgca ggccatcagt ctcagactaa attacagcac tgggtttcct atttctccac 360
tgctgacggc atgccttggg gctttgggct tctataatta tatgagccag ttcccataaa 420
caatcacttc tcatatatct atatatacct attggttctg tttttctgaa gaccctaata 480
cagccccata gcactatatt tttatttttt ctaaaacatt taaacagcct atttttttag 540
agtcatttat gtaggtatcc aattctctca tgaacgcctc aaggccagaa attcaatcca 600
ttttawtttt gccattgccg cagaggaggc acactgtagc tagtcaataa gtggttgtgg 660
aaggaattga gactgataga tctataaacc cactttctgt ggtacatgca gtctatattc 720
aatattccgt gcagcttact ccacaagtga gaggagggtc taagcttttg agcataggga 780
tggttttaga aaataattac atttaaaaag caaaatggag acctgttgag aataaataaa 840
gtcttgtttc ttatagttgt gaatctttta tatcaagact tcacctgaaa aactgctaga 900
ttgtgcttca aagcactgta agttctagcc ctggttctat aatgttatct aagatattta 960
tcatcattga gttctctgga ctcaatgttc ttatccgaaa attgaaggag tcagatataa 1020
tcatttttaa aatgttttcc aaaccaacat cctaaagtcn actctcga 1068

<210> 1759
<211> 1272
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1209)
<223> n equals a,t,g, or c

EP2275540A2

<400> 1759
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attcctttcc tcgcgttggg gtttctctgt gtcagcgagc ctcggtacac tgatttccga 120
tcaaaagaat catcatcttt acctttgggg aaaacaggaa gagggatggt gctttatcaa 180
tcacatactt agcccaaaca agtgccttgg cctcctcaga aatttaaaag gtagaaaaaa 240
atggacatat ccccttttaa gaagcttcca catcacatat ttttyaaaaa gtatttacat 300
ttcagctgtc atgcaaatca acagttttgc caacttcttt ctcctttgct ctggcactgg 360
cattaacatt cttcctcact gtggccctgg aaatcctcac actaatgaag cagcagaaag 420
gcccatcaca ctgcactggt gtgtggtctt cgcatttcct tgactttctt ttctttttg 480
ttctttcttt ttttttttt tgagacaaag tcttgctctg tcacccaggc tggagtgctg 540
tggcgcaatc ttggcttaac tgcaacctct gcctcgggtt caagtgattc ttctgcctca 600
gcctcccaag tagctgggac tacaggttca caccaccatg cctggctaaw ttwtgtattt 660
tttagtagag atggggtttc accatgttgg ccaggctggt ctcgaactcc tgacttcaag 720
tgatccgccc gccttggcct cctgaaatgc tggaattata ggtgtgagcc accatgcctg 780
gcttccttgc ctttcctttg tgagacacgg caacagccca aggggtctca gatgctgacc 840
ctcagcagag ggcacctcct ggggccatgg ctgtgtagct gggggcatct ggcctcacat 900
cctagttgag tgttggtgtc caggtggctg gtgcaggcac ccgcccttct tcacttttgc 960
atgtcttctg tggcctgcct gactggagcc agttgtcagg gctcctgaga gctgactgtg 1020
ggcacctctt cctgacccca cgctcggtga catcagctgg gagcttgcga tcagccaggg 1080
tgggagcatt tacgccacag aacctggcac atgctacagg ccaggacttt gtccttttcc 1140
ttttctggga gttggctcag cagcgtgctc ctgttgtgct gttcccctct ctgcagggtc 1200
atgtggccnt gcctgccggc cctccgtccc cgctccagga ctaacctctg tggagggaat 1260
cacctaactc ga 1272

<210> 1760
<211> 536
<212> DNA
<213> Homo sapiens

<400> 1760
tgcaggaatt cggcacgagg taactctgag ccagtggccc ccaaggtggc agaacaggtg 60
tcagccacat ctagaaggag gcctagggac ctgcagggtg ccacccttgg tgaggcggct 120
gtgggccacc cttggtgagg cggctgtggg ctgtgggtga ggcagcccct tggtgagggg 180
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acaagctgca caggtgtgca gagcactctc cacatagtca ctccctctta ggaaaagact 360
ccttcctcca cttgagaggg catcaggcca gcagggacca gacgttcgcc taatccagag 420
gctgtccccc accagataag ggcgtagcca ggcatgctgt ttaccatccg tcctcaccaa 480
ggactctgtg gccataaaaa gagcagggct tcaccagctc gagggggggc ccggta 536

<210> 1761
<211> 393
<212> DNA
<213> Homo sapiens

<400> 1761
aattcggcac gagctcacct gtccactagc agctggacgg gaaaatggca aggggtcatt 60
tcctgtactg taccgtgagg cagtgattag ctacgtgtgg ctcgtccaac tagagatgtg 120
ctgtgagtgt aagatgcaca ctggatttct aaaactttgt gcaaagaaaa gggaaatatc 180
taattagtaa tttcatatgg attctgtgtt gaaatgacaa tattttaggt ttttgagcta 240
agtaaaaata cattatgaaa attagtttca ccttttttat tctacttctt aaaaatgtgc 300
ttgctgctag aaaatttaaa atgatagatg tggcccatat tatgtttctg tgtgatagac 360
tgctctggat caagagtcgg caaactatgg ccc 393

<210> 1762
<211> 688
<212> DNA
<213> Homo sapiens

<400> 1762
ggcacgagca gggagaatga gactgagaga caggagggca ggagaaggtc agagacaact 60

tttgcttctg aggctgctgc tgaggacttc attttggggc gttgttttct gagccccaac 120
agaaggaagg aagcctctcc ctccaggggt cagtcctggg cctcaagggc accctcgaag 180
caggcagctc agctcacaga gctcccctcg gccatgtcct ccacctgccc ttcctttgtc 240
cagcacctca cctgcacaca cctgtctgga gagtccccaa ggttggagag ctgctgagtc 300
agctgggccg agcacacagc gcaacacttc cttgtgcctc ctaaccagga tgggcgacac 360
cagcccattt tatggatggg acaagaagaa gctgggctga caagcccaac atagtggagc 420
cagcaacagg cttttactct cctctctgtc tctttgtctc tctcctccac cgcacctcca 480
tccgctccat tctcctctct gcacatcagc ttcccagaca atattcttgg tttctgtggc 540
tcccaaactg aagcttcccc acagtggctg caactatcca gacctggggc cacacttggg 600
cctccaggca ggggatctag tgatcacttt ctggtcatgt catcaggcca acttggctga 660
gctctgccct ccttatctct cctctccc 688

<210> 1763
<211> 1430
<212> DNA
<213> Homo sapiens

<400> 1763
gcagcctcca gagtaaagtg aaggcgcaaa gcctcatgca aacatcgagg aatgccttca 60
ttgtttcgag gtctctcttc ctggcctccc aagcccactc cctgccccaa gtgccaccct 120
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ccccccctcac tctgcctggg ccaggggggtg agctcaccct ttcctctagc ctgggagggg 480
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cctgataatt tgccttatct cttcgagtgt ccgtttttt ccaatggtaa gtgatggaaa 900
gcattatttt gatactaaaa catacaagga catagcatgg ggtaggaagt aaaatgcctg 960
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cacaggacaa gcagcctgtg tgggggtggg ggctgcctcc acggacagtg caggcacagg 1320
gcaaccttga ctgtgagccc agggccagca cccaaccacc ccaactgagg cttcctctcc 1380
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<210> 1764
<211> 1803
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (18)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (24)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (46)

<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (106)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1788)
<223> n equals a,t,g, or c

<400> 1764
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cagttggcac gacaggtttc ccgactgaaa gcggcagtga gcgcancgca attaatgtga 120
gttagctcac tcattaggca ccccaggctt tacactttat gcttccgggc tcgtatgttg 180
tgtgaattgt gagcggatac caatttcaca caggaaccag ctatgaccat gattacgcca 240
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cccgggtcga cccacgcgtc cgcttccata catggaaagt gtctttgaag aagtatttaa 360
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ggctgaatac gacgccatgt tgctggagca cgctggagag gccatccctg ccctggcagc 780
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ttgctgcctt acagggctgt ccctgaggct ggatctgtta caaatgagtc atgacatcat 1680
actgtaataa aagcagcttg ttttctgctt gaacaataaa aaaaaaaaaa aagcggccgg 1740
tctagaggat ccaagcttac gtacgcgtgc atgcacgcat agctcttnta taggggacct 1800
aaa 1803

<210> 1765
<211> 1149
<212> DNA
<213> Homo sapiens

<400> 1765
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gctgaaggag tggtgcagtc aatgacttgg ccctttttct acagcacatt tagagtttgg 120
gctctggctc cctcagtaag tgctttatta actcagtgtg tcaaaatgaa aacagagccc 180
tccttcccca gtagctcagt gccacagacc ttcagcccca cacagctgta gctatcctta 240
ccctgagtcc atctacctta aatctgtacc tctgacaccc agccagtctg tcataatcat 300
tatcccagtt ataaccttga ccaaagggga agagagacac ttgggggata tctaggggat 360
aggagtgcta gaaactattt atttatttt gagacagagt ctcactctgt cacccaggct 420
ggagtgcagt ggcatgatct tggctcactg caaactctgc cttttgggtt caagcgactc 480
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gaacttcccg aggaaggaag gaggcctgag gttttgcaca atctgtttca gagcctgttt 780
agactcaaac ctatgcttcc cttggcagca gaatacactt aacctaaagc agtatttgga 840
gttgagaaaa acctggtggg gtaagtgaat atgtactgtt tggtagggta ggtagagaag 900
ctgtgctttg accctgtgat tccatctttt tctaccttct atgatggtga tgaagctaga 960
taccctagg gaagaaagaa ggactgggtt tagcaaatga tttggtaatt aaagtttatt 1020
tgaacacaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1080
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaag ggcggccgct 1140
ctagaggat 1149

<210> 1766
<211> 2753
<212> DNA
<213> Homo sapiens

<400> 1766
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gcagcattct tccagtctgt ggggaatttc ctgggaatct tcgctggctc atttgcaatg 180
gggtctgcgt atgccatcat cacagcactg ttgaccaaat ttaccaagct gtgtgagttc 240
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Patent Application Publication

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EP 1 530 603 B1

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Patent Application Publication

<213> Homo sapiens

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Page 1015 of 1050

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<400> 1787

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Patent Application Publication

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Patent Application Publication

<213> Homo sapiens

<400> 1805

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<210> 1806
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<212> DNA
<213> Homo sapiens

<400> 1806

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<211> 1330
<212> DNA
<213> Homo sapiens

<400> 1807
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<210> 1808
<211> 1100
<212> DNA
<213> Homo sapiens

<400> 1808
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<210> 1809
<211> 1963
<212> DNA
<213> Homo sapiens

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<221> SITE
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (15)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1871)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1954)
<223> n equals a,t,g, or c

<400> 1809
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<210> 1810
<211> 960
<212> DNA
<213> Homo sapiens

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<221> SITE
<222> (928)
<223> n equals a,t,g, or c

<220>
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<222> (956)
<223> n equals a,t,g, or c

<220>
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<221> SITE
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<223> n equals a,t,g, or c

<400> 1810
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<210> 1811
<211> 1691
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> n equals a,t,g, or c

<400> 1811
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<210> 1812
<211> 385
<212> DNA
<213> Homo sapiens

<400> 1812
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cgagggggggg sccggtaccc attgg 385

<210> 1813
<211> 1634
<212> DNA
<213> Homo sapiens

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<221> SITE
<222> (1215)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1218)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1223)
<223> n equals a,t,g, or c

<400> 1813
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agtggactcg tggc 1634

<210> 1814
<211> 889
<212> DNA
<213> Homo sapiens

<400> 1814
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<210> 1815
<211> 1578
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1071)
<223> n equals a,t,g, or c

<400> 1815

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<210> 1816
<211> 2082
<212> DNA
<213> Homo sapiens

<400> 1816
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cagcggaggt tatgctattt tgagaaaaac aattaacctg gttccagaga aatgttttat 180
gtaaataata aactaattgt ggcttgtaaa tgatttgtat gtgatcctgt ccactaaaat 240
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US 6,544,754 B1

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<210> 1817
<211> 1671
<212> DNA
<213> Homo sapiens

<400> 1817
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tccaacacat tcctcatcgt tgtttcccca gaaaatcgtt ttaagagctt atcaaagcag 480
actaggtatc catattcagt ttgacctaaa tttttaaaat aaacatttaa actccagttt 540
ttgtgtgttt actgtgcatc agcactcatg caaatccggg atcagaaaga aactggggtt 600
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ttttgttgta aactgactta ccataagatg cactgttgat atgctttctg atgtgtgttt 1620
cataagggtg ataaaataaa gcttaaaaat aaaaaaaaaa aaaaaaaaaa a 1671

<210> 1818
<211> 1142
<212> DNA
<213> Homo sapiens

<400> 1818
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ggagctggag cagcgggcgg ctctcatggg cggtcaggtg tacttctgct acgacgactc 120
gccctataag agctacgagg acttcaacat ggagttcctg ggcccctgcg ggctgcgcct 180
cgtggagtcc cgcctgctgg tgccctactg gctgctggtg cttctggccg ctctcaacgc 240
cctgctgcag tggctgctgc ggcccctgtt tctctacgcc cccctgctca acccctacac 300
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tacgtacccc tgttctcttg ggaggacagc cggacccgca ccatccgctg ggtgcaggcc 420
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aa 1142

<210> 1819
<211> 900
<212> DNA
<213> Homo sapiens

<400> 1819
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atatttaggc aatacttaca atggagctgt gctcctttac ttttgcctgt ccttccccaa 180
aaagggacaa gttcaggaga tagtacccaa aatttgttta ttttaagtga ggaaagtatc 240
attggaatat gtgtttatcc tgatgttgaa tcatatttaa aatgcactag agagatacct 300
atctgaaaca tatcatttaa tgaattccct tagaaagcaa ttatccatta ttttattttc 360
tgttacaatt tcaatttcca caaaggcttt taaactatgg gtttaattgt attgattacc 420
ccctatagct agaagcagaa gaaattaatt agggctaccc tattagctaa cttagtatgc 480
tccatgttca gttctgtctt tgacccattc ttttgatcta taaatatttt taaactcttc 540
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tggttggtaa tgcttttgtg attttgtata tgtctccggt tgcttctggg gctgtgtggt 660
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<210> 1820
<211> 1326
<212> DNA
<213> Homo sapiens

<400> 1820
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tgtgagttcc ttagcttccc cttgtaggaa caagagtaat gaaaggtcac cagagtgtgt 180
tttgggattt tttttttttc tttgtttttg gagggcggga gaaggagaca aggcaaaaga 240
gaaattgtcg aatgaggaag gaaaggggg aaaaatcttc aagacgaaat ttaaaataag 300
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tcgggtttat ttttcacata tccttttctt cctttaagaa atttttggtc ctccaaagga 420
ttttgaagca tgtatattat aaggtttagc atatttgttc atttgtctct gaagggtgtg 480
gtcagttcag agcagtttat tttggacata tcctgaagcc tttgttttga actcagaaat 540
gcaattgcag gaattggtaa accattggtc caccagcttt cctagactgc tgaagaagga 600
cttgattctc tacgtgcagt cctaagtcct ttaatgacac tcttatgaca aatgtaaaga 660
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ggccatatgt gaagaatgtt gaaatgtact attgtgcatt cctgtgctac tgttgtgttt 780
caggtgtcac ttagcttctg taactgagat ttctcaaaat gtgtcgaccg ctttgctttt 840
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gccatctgat ttatagagga ttccaaaaca agagtttttg aaaaggctta ttttatacac 1140
ctatattata tggagaaaca aatgttttta ttaaatgttt cgctgaccaa aataatttta 1200
aagaaattaa cgttacttat atctttcagg aaaaataatt gtagcagctg atctgtaaat 1260
gactttagaa gctattttag taatttaaat aaatttactt tcttggtttg taaaaaaaaa 1320
aaaaaa 1326

EFS Web - 6/6/2006 5:56:50 PM

<210> 1821
<211> 621
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (364)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (370)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (426)
<223> n equals a,t,g, or c

<400> 1821
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gaccctaccc tcgggacgac tggttccagt gaggacaacc ccttctccta tgatgaatac 180
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cctccccacc ctgcccaccc agaggactgc ccagctccct gggcactgct ccccaagtta 540
cccattgttt tcagatgaaa agtaaagcac tgtggtcctt gaaaaaaaaa aaaaaaaaaa 600
aaaaaaaaaa agggcggccg c 621

<210> 1822
<211> 2144
<212> DNA
<213> Homo sapiens

<400> 1822
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cccagcaggc cacaggcaat gtgaaatatc cctctagcca accgacattt cctgactgcc 120
agtgttgccc ttttcagcaa atgccaattc caagttccat tgaatcagaa ctccatggct 180
ccttgacaca tgctgttgag tgctgactgt gtgttctact gaaggagtaa aacactgact 240
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aatatgatac cttcttttta ataaccatga caaaaattgc ataagaatga gaaaacaatg 480
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<210> 1823
<211> 1187
<212> DNA
<213> Homo sapiens

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<222> (1076)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1124)
<223> n equals a,t,g, or c

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aaaaaaaaaa aaaaaaaaaa aaacaaaaaa aaaaaaaaaa aaaaaa 1187

<210> 1824
<211> 1233
<212> DNA
<213> Homo sapiens

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<210> 1825
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<212> DNA
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<220>
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<222> (1182)
<223> n equals a,t,g, or c

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<210> 1826
<211> 5077
<212> DNA
<213> Homo sapiens

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<221> SITE
<222> (5055)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (5071)
<223> n equals a,t,g, or c

<400> 1826
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<210> 1827
<211> 1634
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1056)
<223> n equals a,t,g, or c

<400> 1827
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atgtgaccag ggtatcttta gatcaatgaa cagaaaatat aaatccactt tcttgaacag 120
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aaaagggcgg ccgc 1634

<210> 1828
<211> 1648
<212> DNA
<213> Homo sapiens

<400> 1828
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cgtggttccc cgctaggtct ccgctggggc aggaaccgga atcatgggtg ggaccaccag 180
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aaaaaaaaaa aaaaaaaagg gcggccgc 1648

<210> 1829
<211> 1726
<212> DNA
<213> Homo sapiens

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gcttttagct aatcatccaa atgattacat gttgtaatgg aggcagaaga ccctcgtatg 180
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<210> 1830
<211> 1175
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (740)
<223> n equals a,t,g, or c

<400> 1830
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<210> 1831
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<212> DNA
<213> Homo sapiens

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<210> 1832
<211> 1827
<212> DNA
<213> Homo sapiens

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<211> 734
<212> DNA
<213> Homo sapiens

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<210> 1834
<211> 1392
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

EFS-Web Upload

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<212> DNA
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09/25/2006 15:24:34

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<210> 1840
<211> 2574
<212> DNA
<213> Homo sapiens

<400> 1840
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<210> 1841
<211> 1579
<212> DNA
<213> Homo sapiens

EP 1 736 544 A2

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<223> n equals a,t,g, or c

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<222> (1563)
<223> n equals a,t,g, or c

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<211> 2202
<212> DNA
<213> Homo sapiens

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<220>

PCT/US2005/036956

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<223> n equals a,t,g, or c

<220>
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<210> 1843
<211> 1556
<212> DNA
<213> Homo sapiens

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<210> 1844
<211> 2185
<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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<210> 1850
<211> 1019

Patent Application Publication

<212> DNA
<213> Homo sapiens

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<211> 1659
<212> DNA
<213> Homo sapiens

<400> 1853
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<210> 1854
<211> 2845
<212> DNA
<213> Homo sapiens

<220>
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<223> n equals a,t,g, or c

<220>
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<222> (836)
<223> n equals a,t,g, or c

<220>
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<222> (927)
<223> n equals a,t,g, or c

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tgataaaaat gaataccctg ctttcattgg aaatttctag cttacacttt ctctctcact 180
ccgtttctcc ttttctgtct ctctctactc cttctccctc cctccctccc tctctctctc 240
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aagaatggtc atcacaactt tgaattccat ggtacacttt ccacaaatgc ttctgtttgt 720
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gaattttaaa aaaaaaaaaa aaaaa 2845

<210> 1855
<211> 1647
<212> DNA
<213> Homo sapiens

<400> 1855
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atttgtgctc tcacttcctt aaattttaac cttcttctcg tgctgcactt tctccaggta 180
tatgagaaac ctctccattt ttcactttca tctgtattgc tctttgcctg ttggcctcaa 240
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gtgtggcaat cccagtgaaa agccttttcc cagtactcat ctttccatcc tggggaaggc 360
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aaggatggaa aggcagtttc ctaagacaga tgtatcaggc aggagagagg agctatacaa 540
tgtcaacagg gaaagtgtaa tataaataat catgaactaa taatagaggg ttagccacta 600
agggataaaa agaagtctaa aggttacaga aacaggtgaa tggataaaca aaatgaaatg 660
ttattctgcc ataaaatgga atgaaattct gatacatgct accccatgga taaaccttga 720
agacattatg caaaatgaaa taagccagac tcaaaagggc aaatattata tggtgccact 780
tatacaatgt accatgaata gtcaatccat aaagacagaa agcggaatgg aggttttcag 840
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aggctgaggc aggaaaatcg cttgaacctg agaggtggag gttggagtga gccgagatcg 1560
tgccactgca ccccagcctg ggcaatagag tgagattcca tctcaaaaac aacaaacaaa 1620
caaacaaaca aaaaaaaaaa aaaaaaa 1647

<210> 1856
<211> 640
<212> DNA
<213> Homo sapiens

<400> 1856
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ttctcaactt tttaaaatga agattaaaaa ctgtgtgacc caaataaaac agacatgtcc 120

acatatgttt tttagggaag gatttttgta tctgttcact gctgtattcc taggctacca 180
aatgaattca gcctgtaggc ctcgaatttg caacttctga cttatatgta aataaataat 240
aaatgtattt tttctttttt gagacggagt cttgctctgt cacccaggct ggaatgcagt 300
ggcatgatct tggctcactg cgacctctgc ctcctgtgtt caagccattc tcctgcctca 360
gcctcccgag tagctgagac tacaggcgtg cgccaccacg tctgactaat ttttgtattt 420
ttaatagaga cagggtttca ccatgttaac caggctggtc ttgaactcct gaccccaggt 480
gatccgccca cctcagactc acaaagtgct gggattacag gtgtgagcca ccgcacctgg 540
ccaagtgttg tattcttaat catctggaaa aaaataaaaa aaaaaaaaaa aaaaaaaaaa 600
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 640

<210> 1857
<211> 706
<212> DNA
<213> Homo sapiens

<400> 1857
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gaacagagag cttgcctgga acagagctac ttgcttgtat gttgggttct cccatatgga 120
gtgagtggac acagaaaacc atgctttctg ccttgacctt gtacatatgg cttatgtgac 180
ctttggcaaa tcacttgctt tctctgagtc tcgttttcct cgtctctaaa aaaaaattaa 240
aattgaatag aggatggtgt gagatttcag caagattaaa aggtataaga ggccagtcca 300
ctgctgggat atggagtgtg gtctgatgat ccttttaaag aatggctgcc tgggagttgg 360
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<210> 1858
<211> 1264
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1211)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1256)
<223> n equals a,t,g, or c

<400> 1858
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aagcatacta atcttactgt ttctttaaaa aagaaggcac atgtaatatt gacatataca 840
aatattcagt agacgttaga tttctaaaaa atgagatctt gatttttaa aaaacactgt 900
ttacagaatt ttattaagtt taaaatttag agacaggaat ggttgacagt aacttatctg 960

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tgta 1264

<210> 1859
<211> 2249
<212> DNA
<213> Homo sapiens

<400> 1859
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gcacgtactc acttttctgt atgatgtggg cagctcagta aatcttcaga gaaaaatctg 180
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tgtagcctaa caaactgctg ttctttctaa ctgacagaca tgtattaata ttgtactttg 2160
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ccatgttgtt aaaaaaaaaa aaaaaaaaa 2249

<210> 1860
<211> 1450
<212> DNA
<213> Homo sapiens

<400> 1860
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gcacaataca aatacaggac tatcccttac atctggaagc acaaagtata gctttcacaa 120
caaaagacaa atgcccatac atggcatttc ataacaatgt tgctcatgtt ttttactttt 180

tggacaaggg agaggctctg acagtttgga ctcagatcgt ctatccagaa aacactggtc 240
tgtatgttat tgtggaatct tatggcccaa aaatattaca agagagtcat gagatttcct 300
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tgataaaaaa ttcattgcaa ttaaaggatt tagtaaaaaa ggatgtcatc accatgattt 480
ttcatacgtg attgaaaagt catatctgag gcatcagcca tcgaaaaact tgagagtaag 540
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taaatagaat gttttcatat atattgttat taaattaatc ctttgtttgc attcattttt 1380
aagatatata tgtacttcac atggcatgaa aaataaacta aatttgacta ttaaaaaaaa 1440
aaaagaagta 1450

<210> 1861
<211> 1645
<212> DNA
<213> Homo sapiens

<400> 1861
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aacatgaaca gcatagctag gaagaaaagt tggagaggac accagggcat aagcagattc 180
gcactgcaag ataaagcaaa aagaagataa gtgccaagta ccagatggaa tgaaatcatg 240
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<212> DNA

<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<210> 1865
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<212> DNA
<213> Homo sapiens

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<210> 1866
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<212> DNA
<213> Homo sapiens

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<210> 1867
<211> 969
<212> DNA
<213> Homo sapiens

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<220>
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<400> 1867
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<210> 1868
<211> 1206
<212> DNA
<213> Homo sapiens

<400> 1868
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Application Number 10/765,430

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<210> 1869
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<212> DNA
<213> Homo sapiens

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<211> 1370
<212> DNA
<213> Homo sapiens

<400> 1870

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<210> 1871
<211> 751
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> n equals a,t,g, or c

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<222> (124)
<223> n equals a,t,g, or c

<220>
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<222> (135)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (144)
<223> n equals a,t,g, or c

<400> 1871
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tggcttctga taattatttt aaaggggtct gaaatttgtg atggaatcag attttaacag 480
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ctgtcatggg ctaggcatgg tggctcacac ctgtaatccc agcattttgg gaagctaaga 660
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<210> 1872
<211> 2329
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (12)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2292)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2305)
<223> n equals a,t,g, or c

<400> 1872
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tggggtattt ataatagtca gcgcaggaat gcacatggaa tatctacttg tccttttgaa 180
cctcacgagt catccagaat gtatagacag gaaaagcatg tcttatttaa aactgtaatt 240
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tggtccctac cctgtgtgaa tgtgaggatg tagacatcca tcagtgcaac tcgagctcca 360
tcctcctccg atttctaagg ttccagtttt ctggagggac agtcatcatg ttttgattta 420
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aaaaaaaaaa ancctcgggg ggggncccgg tccccctttg gccctttgg 2329

<210> 1873
<211> 953
<212> DNA
<213> Homo sapiens

<400> 1873
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tccagctgat accccgagaa aaaactcagc cataacatga ttatgttgct taagtaagtc 120
catggtcttt ttcagtctct taagttcctg tctacacagt tttttcacag gatgcacttg 180
atatggttgt gtgttacagg tttattcata tcagctactg aaatacatgc tgtgtgtaca 240
tataataggt acattgtctc tgcttattga acttataaaa taataataaa cagctgaata 300
aggaaagtaa tgtaagtgtt gttaagtaaa ggactttgtt gaagaagaac ttcagttttt 360
aacaaaaaaa tgggagccag aagaaggcgg ctgaaaggtc tgtttctctc atatgtggag 420
taaagcaaac aaaaatatgt tttcttatat gtggagtaaa gaaaacaaaa agccacttaa 480
agagtcttga tgtttgagat taaggggtgg atggtttgtt cttccttttt gtccatagtt 540
ttttcagagt gataattttt aattcccatc gtcagtaatt aaagaaagtg atatttttta 600
cacttttaa aaaagcttca gtatttcatg ttaacctgtg ctaggtttaa ctgaaaggtt 660
tgggatttt tagttgtttt ttgggggtg gataatatta aacgtaagac tgaatttggc 720
cagctgaatc taattagggc aataagttgc attatttcat ctctgaatta tgaaaataat 780
ttgaaatttt ttttcttata tttcaggcct ttttatggtt atcatgagaa ggaaagacac 840
tttatgaaga tctatcttta caatcctaca atggtgaaaa ggtacaaaga taaatgaaac 900
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<210> 1874
<211> 932
<212> DNA
<213> Homo sapiens

<400> 1874
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atggggtgca gagaaactgg taggcagtgg tggcactggg gggcagaaga ggccaggact 120
ctgggggtcc cagggcagat gtggccaccg tgggggcggt cagggcgggc caccgtgaat 180
ccttaggagg gctccaccac cgactggccc agtgaacaca gccatgtgct ccctgacctg 240
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acaagcttcc cacaggagtt tgcccaggat gtgggccgca tgttcaagca attcaacaag 540
ttaactgagg acaaggcaga cgtgcagtcc atcatcggcc tgcagcgctt cttcgagacg 600
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acgatattgg tttttacttc ctgtggattt aataaaaact tcaccagtta aaaaaaaaaa 900
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 932

<210> 1875
<211> 1812

<212> DNA
<213> Homo sapiens

<400> 1875
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ctcaagcaac tccttttttag ttttaatact ttctatgttg cccaaatcaa gtcttatttc 120
catgaatcac tgttttatgt aataattttc ttggtgaggt caatttacat agttttggta 180
ctttcatgtc agatttctaa ggtagtataa tttagtttag aggaagaatt tctacacaga 240
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acacagaagt atattcctgt gcaaattaat gcagattctg aagtgaaaga caggactttt 420
gagagatttt gagtccaagg attcacctct tcaaacacaa ctgaaaaaac tctatttttt 480
ttatttttaa atctaatcag tttatatatg cccaggtcca gcaaaaagaa gctgggttga 540
taatgtgttt tgcagttatt caagctagtt tgaaagagta cctggcagtg attgtgaaga 600
ccaatgattg tgctactaag gtctctcaat tgccagacac ccaccaagta ttttttaaat 660
atgctattct gttttgaaac tcaaaacctt gtatttttgt taatctagtt acctgccaaa 720
tcaaacagga atccaaagtt tcataaccct gctgtattct ctggttacta gaaataagca 780
tatttttgat gttttaacaa ccttttaaaa taataatttc taataatgaa atagaatatt 840
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ttacttaaat ttctttttag aacatactgt tatgaacatt aacatttatt caagtccttg 1020
ggacaattct tcttcagtta cccagtaaaa ttttcatgat ctctgcaaaa catagaatta 1080
gaaatataaa ataagataaa ttttagaata cagtgagatg acttacacaa tttgataatt 1140
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ttaatattgc agcaaaatgt cagttcatgt tattgtatca atcacttatg gatacatgat 1260
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atgcatcaaa atcaactgca gttattacat gctaactcaa acttacaaaa tcaagctctc 1500
tgtgatcctg gttaatacat ctaagtactt gagccgataa tccaagtact ttgggggtc 1560
gaggtgagag gatagcatgt ggccagaagt tcaagaccag cctgggcaac atagcgagac 1620
tccatctcca caaaaaagtg ttaaaaatta gccagacatg gtggtgcatg tcttagttct 1680
aactactcag gaggctgaga aaggaagatt actttagccc aggagctcaa aggtgcagtg 1740
agctgtgact gcactccagc ccgtctaaaa aaaaaaaaaa aaaaaggaaa gaaaagaaaa 1800
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<210> 1876
<211> 594
<212> DNA
<213> Homo sapiens

<400> 1876
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tttgatcagt atagtttgca gatgataaat tttattaata aaatgttaat ctttagtttt 120
catcgatgtt tttaactgtt tttctgtttg ttattttatt tatgtatgct tttatttttg 180
ttattacttt tttttttact ttagatttac ttttgtcttt tttgtcccct agtttcttag 240
gtggaaggca aggtcattga ctggagactg ttctttttttt ctattgtggg cctttggtgc 300
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ttcagttcag catactttct aacttctttt ttgagttatt ctttgattca tgagttattt 420
agaagtatgt tagtattcaa atattggaca ttggacattg gacaatggtt tttctgttaa 480
tttgtaattt aattttgctg tcatcaaaca acatactttg tattatttta atacatttaa 540
atgtatcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa 594

<210> 1877
<211> 909
<212> DNA
<213> Homo sapiens

<400> 1877
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agcaacctgg agtccaattt tcagtatttt aactacctca ataatgctat gaatgtaaga 180
tattgggata gagatcccaa cttgaaacaa cagccagtgc ctgtggtaac ttaatgtctt 240
gtcaaatact tttattgatt ggtttatatg ccattcttgt tatagaagaa tatgcctttt 300
aaaaaagctt attaataaca ctttcccaat ttatatttta aaaagctaaa gaacactgga 360
ttaataatct tttgggaggg tagaataaaa taattgatta ctattgctgc atacccgggg 420
tgggatgggg tggttggaga accagaacta tttttaaaac attaggtttc aatataaata 480
caactcacaa ctgctagctt tgggggggtgg gggaacattg tgtgggtttt gttttgttta 540
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taaacactac tcaagtacag actgcaaacc aaaatgtatc tgtgttacga cattaattgc 720
aaatagcaag tatggtgcta aagtctacac caatggaatt agatgagtgc tatgcactta 780
attttaaaat aaaactagtt ttcagtaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 840
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 900
aaaaaaaaa 909

<210> 1878
<211> 1463
<212> DNA
<213> Homo sapiens

<400> 1878
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ttgaggaagt tggaggttaa ggaaggaact tgtttgtttc cgtatacgac tccttcttct 180
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aaagcattag caggaatgag acaaggcaga gctgcagtgc cccctgaggc ttccacacat 300
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cccccatccc agcagctcag ctaagccctg atgagaatga agccacagga gttgtctgag 420
gtgaacccag ccgctcagcc acacatggaa gccattgcct ttgcacatag ttcttgggtt 480
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tggaaaacac acgactgacg ctcaggcatc ttcccctact ccccaacaga tccccagaag 600
acagcgtgga aggcagtgta gacagtaaat cgggcttcag ttctatagcc aagaagagat 660
cagctgctga aaccaccagt gggtacccca ggccacctgc ctttgaactt ggggatttgc 720
catgtctgat cttgtcacat acttgctttt ttacaagatg aactctttgt atttatgatt 780
tgggggcaa tgaaaggtgc aatgcaggaa ctgctgctgc cgagctcgct ggtcacatgg 840
gggtgccagg cgggattctg gaaaaccagt gcacttaaac tgatcctgaa gagagctgtc 900
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ccaatcaaaa aaaaaaaaaa agg 1463

<210> 1879
<211> 809
<212> DNA
<213> Homo sapiens

<400> 1879
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tctcactctc tctttgaatt ttctaagatt acataattcc ataatgaagt tcacgtgacg 240
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attagagatg gggaattagc tttatcaagc ctttgggtaa aatgtaaaaa ctgagctgat 480

ttgtctttgg catctcagta acaaaaatat agatctgatt ttaacattta cagcactgcc 540
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gaaaggttta ttaaatggca cagtacttct gaagacatag aaacatataa atgatgcaat 660
ataggttgct aagccttttt cctcccattt aaaattatca gaacaatttt aaatggattt 720
aagccaaaaa aagggacttt ttttggattt aagcaaaaaa aaaaaaaaaa aaaaaaaaaa 780
aaaaaaaaaa aaaaaaaaag ggcggccgc 809

<210> 1880
<211> 1583
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (892)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (897)
<223> n equals a,t,g, or c

<400> 1880
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aagctttcat ggtggtacgg ctctaccaat cttaagcttt gtttatgcat ggcctattct 180
aagatcatct ggggacaaac ctgaatgagg aggtctccca aaagagcaac aggattgcca 240
aagtaaaagt tgcatcaggg tccaacctaa aagtactagc caagtgtctc aactcttaga 300
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aaggaaaaaa tatctatgca caatggttag ttggttcaaa tgcacacata cggacccagc 540
ataagatgac tgcctgatgt agagccataa gggaatcgtg ggatccaggt cttccatctg 600
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tctgctcatc cctccacctc tgttccccac ctgggggcmg ctgaacyygg actattgccc 720
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cagcatgaga acagactaat acaagggcta attttttttg tttgtttgtt tcttttgata 1500
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aaaaaaaaaa aaaaagggcg gcc 1583

<210> 1881
<211> 352
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (12)
<223> n equals a,t,g, or c

<400> 1881
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ggcggggttg actcttccag tgagggcaga accaggctgg caggagggga ggacggtgta 120
cctgctgctc agagccccca aggctctcct ctgagagcca ccaagcagga cagagcagct 180
cttgtcccag gtccctcggg ctgagcgccg tgtcaccagg agaatagtgc tcacagccca 240
ggcagggtgt gtggctcctg gatgggctcg tggggcggga kgggacaggg cacgggctct 300
cagaaaataa actgctttat tggaattaaa aaaaaaaaaa aaaaaactcg ag 352

<210> 1882
<211> 453
<212> DNA
<213> Homo sapiens

<400> 1882
ggcacgagag acacagctgc tgccctgcac cagggagcag taccaccact acccccgtag 60
ctctcctgag cccatgccgg catgttttgt gagcttctct gtattcttct gcgccaccgt 120
cccttgtgct gggagcatgc ctgcctcttg gcaccacctg cagtgttaga gagactgcgg 180
ctgatcgtgg ggaccctgca tcacgccccc ccacccccgg cagtgtccca ggaatccatt 240
cctgtgtcca ctgagcacag cctgcgtggg aggcctgagc cccggcccca ggttctgtcg 300
ctccggatag ggatgagtga ttggactttg gaaagggaaa atcgatgccc cctttaagaa 360
atgttatttt taatcaaaat aaattctccc tttcctgtga aaaaaaaaaa aaaaaaaaaa 420
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 453

<210> 1883
<211> 996
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (514)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (574)
<223> n equals a,t,g, or c

<400> 1883
gcggcacgag cacatctcat cttccactgg aacgtttaga taaaggagtg tggggtgtaa 60
taaagaacta agctaaagcg agagaaacac tgaaaaacta cgaaatgtca cacaagtacc 120
ataaagagag tgattacttg attaattaat gataggaacc ctacatttaa gtctttcagt 180
tatacttgca tcagtcctct ttgcctatca gaatgcggtt tgtttctgcc aacgaataac 240
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tgagttttat gcatgaagct gtatccttga tttttcacct ttaatttcct cctgtttaac 360
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gaaaagtgcc tgagtcagtt tgggcacctt gtttggtaaa accgacttgg gggaactctt 480
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ttattttaga cagctagaga tgatgacatc tgtctttctg gtctttttca cattcattta 720
ccatctctgt taatatcacc tgattttctt ttggggcagc accccttccc atctctgctt 780
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aactattagg agaaaaaaaa aaaaaaaaaa ctcgag 996

<210> 1884
<211> 2444
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1655)
<223> n equals a,t,g, or c

<400> 1884
ggcggaggcg gaggcggccc cgggctcggg cggctgggat ggagcagaag agcgcggaca 60
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actggagctg ttcgcgcctc ccggctccca ccgcagccca cccggcagag gagtcgctac 180
cagcgcccag tgcgctctgt cagtccgcaa actccttgcc gcccgccccg ggctgggcac 240
caaataccag gctaccatgg tctacaagac tctcttcgct ctttgcatct taactgcagg 300
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tgtaccamcg accamcatct ggactagctc tccacaaaac actgatgcag acactgcctc 420
cccatccaac ggcactcaca acaactcggt gctcccagtt acagcatcag ccccaacatc 480
tctgcttcct aagaacattt ccatagagtc cagagaagag gagatcacca gcccaggttc 540
gaattgggaa ggcacaaaca cagacccctc accttctggg ttctcgtcaa caagcggtgg 600
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cccgacagag gagtccagct ctgaccacac acccacttca catgccacag ctgagccagt 900
accccaggag aaaacacccc caacaactgt gtcaggcaaa gtgatgtgtg agctcataga 960
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acaaaacaaa acaaaaaaga ggcactagtc tatctgcaat tactcaacga ggcattttca 2280
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tgctttaata aatgagcaac cctgggtata gtcttaaaat tctgcacaat aaattttgag 2400
aaagaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagggg gggg 2444

<210> 1885
<211> 2444
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1655)
<223> n equals a,t,g, or c

<400> 1885
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ccggagggca cgcagctgac ggagctgcgc tgcgttcgcc tcgtttgcct cgcgccctcc 120
actggagctg ttcgcgcctc ccggctccca ccgcagccca cccggcagag gagtcgctac 180
cagcgcccag tgcgctctgt cagtccgcaa actccttgcc gcccgccccg ggctgggcac 240
caaataccag gctaccatgg tctacaagac tctcttcgct ctttgcatct taactgcagg 300
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cccatccaac ggcactcaca acaactcggt gctcccagtt acagcatcag ccccaacatc 480
tctgcttcct aagaacattt ccatagagtc cagagaagag gagatcacca gcccaggttc 540
gaattgggaa ggcacaaaca cagacccctc accttctggg ttctcgtcaa caagcggtgg 600
agtccactta acaaccacgt tggaggaaca cagctygggc actcctgaag caggcgtggc 660
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caaccatagc tccactgtga ccagcaccca acccactgga gctccaactg caccagagtc 840
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acaaaacaaa acaaaaaaga ggcactagtc tatctgcaat tactcaacga ggcattttca 2280
taggaaacag actatgatta atccatttat tcttcccaca cacttacctt actaagtctt 2340
tgctttaata aatgagcaac cctgggtata gtcttaaaat tctgcacaat aaattttgag 2400
aaagaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagggg gggg 2444

<210> 1886
<211> 895
<212> DNA
<213> Homo sapiens

<400> 1886
ggcacgagtt cctatttccc tgccatcatc tgctatttct gccacttctc ttagactcct 60
tgtctgcaaa gcccaagcta gaactcactg tctatggcag aaggacatcc agagcccatt 120
ctggagtttt gtttttcct tctgccagat gctttgtgtc ctgtcttcct tcctcctcat 180
atttctgttt ctcatttgtg ttcagttttg tgcagcattg ctagcactgc ttttgtgacc 240
agaaaaggcc ataacatggt ccaggatcat cattcttctg actctagatg ggacacttga 300
cagtgacttg aaacatttgc atattcagga atgcatgaga tttcaagaga gcctacagta 360
tgaaatcatt ttcacaaaat aagcagcttg cttctgaaat gctgtctttc ccagtagcta 420
ctcacctgcc tctggtggct gggattcaga tgccacaaaa ctgtcagtat ctatagacca 480
ggtctgtgcc acctcctctc tcctctgtgc tcagtgagga ggcagtaaat gaagttacag 540
gctagcacaa tacctaactc atgtttccca gtacacctgt agatattact gtacttttat 600
gttctcaaga aataagttgt tgcctattca gtgttacaga tttctttgtt tctttttaat 660
taaaatacaa gaagcagctg aggaaaggga gacaaggtat tttatttctg actgatttta 720
gaaaaaactt gtgtacatgt gtttggaact gttgaaatgc caagttttct gtataagtgt 780
ttttgtaatt aaactttcag attttctttg ttttttaaga agttgatgtg cttgtttgac 840

atttgtctca ttaaaacttt tctacgttga aaaaaaaaaa aaaaaaaaaa aaaaa 895

<210> 1887
<211> 1320
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1024)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1309)
<223> n equals a,t,g, or c

<400> 1887
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gccttggcct cccaaagtgc tgggattaga ggcgtaagca ccgcgcccag cccctatcct 120
ttttgttttt tattataaaa gtaatatctg aatacatgat tgtttaaata aatgctgtgt 180
aagtgtataa aatgaaaagt aaaaggcccc catgaatgga cattaagata cttccgatgt 240
gttttgtttt ctattgctgc agtatttgtt actgtacttg tgatggtaca tgtgcatata 300
ttgctctaaa acaaatttct agaagttgaa ttccaaacag tgactgttcc agatgtctta 360
ttttttagga ccccaagcct cttaaattca ggtctttccg ttattccctt accttctccc 420
ttatcccttc aaatctttgc ccactgccat cacattaatg ccttctttga ccttatttta 480
tctgttatag taatgagctg ccctgttctt tctatcttta atctccccac tccaccttgt 540
ccttattatc tcagctagtt taattcttaa aagtgagtat attaatcctt ggaatctttc 600
ttttttatat atatatatag tactgatatt tttcagttag tagcttctga ttataacttt 660
cccaaattga ggctttcatt tccttagaac aaggaactgc cctggctggg cagtttagtc 720
aaaggcttgt cagggtgttt agtagacagt tgtgcaagtg gagctattca cagggactgt 780
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atagctcggt taggatctag actctgctcc caaactggta gtgtattttg gggtgcactg 960
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tcaggagttc gagaccagcc tggccaacag ggtgaaaccc cgtttctgct aaggttacaa 1140
aagttagccg gacgtggtgg cacatgtttg tggtcccagc tgctcgggag gctgaggtga 1200
gggggtcgct tggatccggg aggcggaggt tgcagtgggc tgaaattgta ccactgcact 1260
ccagcctggg cgacggagtg agactccgtg tcaaataaaa aaaaaaaana aaaactcgag 1320

<210> 1888
<211> 1227
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1164)
<223> n equals a,t,g, or c

<400> 1888
tataaaagta atatctgaat acatgattgt ttaaataaat gctgtgtaag tgtataaaat 60
gaaaagtaaa aggcccccat gaatggacat taagatactt ccgatgtgtt ttgttttcta 120
ttgctgcagt atttgttact gtacttgtga tggtacatgt gcatatattg ctctaaaaca 180
aatttctaga agttgaattc caaacagtga ctgttccaga tgtcttattt tttaggaccc 240
caagcctctt aaattcaggt ctttccgtta ttcccttacc ttctccctta tcccttcaaa 300
tctttgccca ctgccatcac attaatgcct tctttgacct tattttatct gttatagtaa 360
tgagctgccc tgttctttct atctttaatc tccccactcc accttgtcct tattatctca 420
gctagtttaa ttcttaaaag tgagtatatt aatccttgga atctttcttt tttatatata 480
tatatagtac tgatattttt cagttagtag cttctgatta taactttccc aaattgaggc 540

tttcatttcc ttagaacaag gaactgccct ggctgggcag tttagtcaaa ggcttgtcag 600
ggtgtttagt agacagttgt gcaagtggag ctattcacag ggactgtatt actatgttcc 660
tttgttacta aaaaaaaatt cttgcagtcc ctgtagttcg caacagatac tctgactcat 720
atttctctac ataggagaaa gagtatggac tttggagtga tacatctata gctcggttag 780
gatctagact ctgctcccaa actggtagtg tattttgggg tgcactgcta tgtttctgag 840
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gtagtggcac atgtttgtaa tcccaactac tcaggaggct gaggtgagag aatcgcttga 1080
atccaggagg cggaggttgc agtgagctga aattgtacca ctgcactcca gcctaggcga 1140
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aaaaaaaaaa aaaaaaaaaa actcgag 1227

<210> 1889
<211> 1176
<212> DNA
<213> Homo sapiens

<400> 1889
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ggctttgtga attccagaaa gggaactaaa ttctgcttaa aaagagaagg cttctcaaag 120
ggagtaatgt ttgacttgag acccagagaa ggagaaagga aggaagcttg cagaggagcc 180
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tgtttatggc actgatgtgg tgcccagtgc attctgcttt gtactaaata tgctgtatct 420
caccttttgtg tcagcaccaa actgtgttct ttataattct gcagcttcta gtacatttgt 480
gcatagtagc aactcaatgc acatttgttg aatgttgaat gaatgctagt caaggcaaga 540
caagcaaaat tctcaaataa gtcaaaataa tccctaatta tttccagatg gaatggtaat 600
caatttgctt caggaataaa ttagccaatg gatgtttgat aacataaccg accctaagta 660
actcgattta gctgctgaag ccagctttta aagatgcagt ttatccactg gccatgggat 720
atcggccatg attactggag caagccctag taatacaatc tttatataat aaatataatc 780
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atatttggca tttatgcctc tcagcactat gtaatttctt attagaagta cactttaact 900
tgagaattcc attagaatca ttaaattttc tgaatagaaa gcttaacagt gtttaaaaat 960
aaatttttag tggcttcatg atgtcaaaac aatcacttga aagctgaaaa atatgttaaa 1020
cctacttttg tatttatgtc ccagtttgct tttttcaatt cacaaaaaaa gatttgactt 1080
gattacaaag aagaaaacac agaaagagca aaaaagaaaa gaaagatgaa aggaaggaag 1140
aaagggagac aaaaaaagaa aaaaaaaaaa aaaaaa 1176

<210> 1890
<211> 531
<212> DNA
<213> Homo sapiens

<400> 1890
ggcacgagct gactgtatac agggttactg ttggggttat tgtggggcag tgtaaggtga 60
tgaagatctc actgacttag tgttgatggc ttgagtttga gtcctggtat taccactcgt 120
ttgttgataa tcttaggtaa ataaactggc attgctaagc cccagaaaaa tgtatttagt 180
ggaacagatg aaatatgatt cagtggttag gaagttaact tctgaagaca gacaaaccta 240
agtttgaatc atggttcacc ccttagtggc tttgtggcct tgggcaagtt tctttaattt 300
tcttatctat actgtgaaca gtacttacat cataggtttg gtctgaagat tctgtgagat 360
aatgcatatc aagtggttag cactttgcca ggcacattgt taagtgccca ataaatgtgg 420
gccaaatgtg atagctcacc cctgtaatgc cagagctttg ggaggatcct ttgagatcac 480
cctgggcaat atagcaaaat cccatctcta gcaaaaaaaa aaaaaaaaaa a 531

<210> 1891
<211> 1221
<212> DNA
<213> Homo sapiens

<400> 1891
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acctacgtcc tcttcttgat ggcgctgacc ttcctcatgt cctccttcac cttctgtggt 120
tccttcacgg gctggaagag acatggggcc cacatctacc tcacgatgct cctctccatt 180
gccatctggg tggcctggat caccctgctc atgcttcctg actttgaccg cagtgggatg 240
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gtcccgagtt ttggctgctc acaaagcaac gaaaccccat ggattatcct gttgaggatg 360
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acccttgata gaatagataa gttccttaag gctcagatct tgcttaaagt cgtccagcct 600
gttagagaca agtagaacac gaagctggcc tctggagtct ttattgagta ctttgtacaa 660
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tcaggccagg catggtggct cactcctgta atcctagccc tctgggaggc tgaggtggga 1140
ggattgcttg agcccagaag tttgagacca gcttgggcaa aatagcaaga cttcatctct 1200
atttaaaaaa aaaaaaaaaa a 1221

<210> 1892
<211> 1293
<212> DNA
<213> Homo sapiens

<400> 1892
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<210> 1893
<211> 908
<212> DNA
<213> Homo sapiens

<400> 1893
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<210> 1894
<211> 546
<212> DNA
<213> Homo sapiens

<400> 1894
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<212> DNA
<213> Homo sapiens

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<210> 1896
<211> 308
<212> DNA

<213> Homo sapiens

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ggaaaaatat gatatggaat aggagtcttc ttttggccat ttactttctg tgtggcctta 240
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aaaaaaaa 308

<210> 1897
<211> 236
<212> DNA
<213> Homo sapiens

<400> 1897
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tggatatgtt ttaagtaaca gagttcctct gcctttaaaa aaatgtttga aaactaagcc 180
atgagccacc acgtccggcc taaagacact tttataaaaa aaaaaaaaaa aaaaaa 236

<210> 1898
<211> 2024
<212> DNA
<213> Homo sapiens

<400> 1898
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tcctatacta ttttttcccca agaagcatca tctatgaaaa caatcagtga actccaacag 180
tctatactgg taatgtgcac attgatgcta ttatgacact taatacaaat agtaaaaata 240
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09350804.090704

<210> 1899
<211> 1345
<212> DNA
<213> Homo sapiens

<400> 1899
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<210> 1900
<211> 1376
<212> DNA
<213> Homo sapiens

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<210> 1901
<211> 1485
<212> DNA
<213> Homo sapiens

<400> 1901
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<210> 1902
<211> 486
<212> DNA
<213> Homo sapiens

<400> 1902
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aaaaaa 486

<210> 1903
<211> 2401
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1263)
<223> n equals a,t,g, or c

<400> 1903
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<210> 1904
<211> 2970
<212> DNA
<213> Homo sapiens

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US 2003/0096359 A1 May 22, 2003

09/30/2003 - 09:42 PM

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<210> 1909
<211> 2003
<212> DNA
<213> Homo sapiens

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<210> 1910
<211> 1417
<212> DNA
<213> Homo sapiens

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<210> 1911
<211> 1146
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1141)

<223> n equals a,t,g, or c

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<211> 1465
<212> DNA
<213> Homo sapiens

<400> 1912
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<210> 1913
<211> 1817
<212> DNA
<213> Homo sapiens

tcag4720.seq

<220>
<221> SITE
<222> (1796)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1797)
<223> n equals a,t,g, or c

<400> 1913
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<210> 1914
<211> 1953
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1362)
<223> n equals a,t,g, or c

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EFS: 6.4c-20050929

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<210> 1915
<211> 1956
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1362)
<223> n equals a,t,g, or c

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Application Serial No. 09/755,038

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<213> Homo sapiens

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<211> 1592
<212> DNA
<213> Homo sapiens

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<211> 270
<212> DNA
<213> Homo sapiens

<400> 1925

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<211> 1045
<212> DNA
<213> Homo sapiens

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<210> 1929
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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<210> 1931
<211> 921
<212> DNA
<213> Homo sapiens

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<210> 1932
<211> 1723
<212> DNA
<213> Homo sapiens

<400> 1932

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<210> 1933
<211> 2310
<212> DNA
<213> Homo sapiens

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<210> 1934
<211> 1541
<212> DNA
<213> Homo sapiens

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<211> 2074
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
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<222> (2043)

<223> n equals a,t,g, or c

<220>
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<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2061)
<223> n equals a,t,g, or c

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<210> 1936
<211> 2288
<212> DNA
<213> Homo sapiens

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Application Serial No. 09/755,626

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ctgacttcag gaaaagtaac acagagtggc cttggcctgt tgtcttcccc tattttctgt 2160
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aaaaaa 2226

<210> 1943
<211> 1758
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (26)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (27)
<223> n equals a,t,g, or c

<400> 1943
ggtcgaccca cgcgtccgct tttttnnttt ttttttttttt ttttttttttt taagtctata 60
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agcttaaacc acaatggtat aaatcttcat tttgtaatta ataatttctt gcataacaat 180
gtttgatatt tgcaaacaaa caacattttt ggaagcatta gattcagtcc atagattctg 240
tgacaaaatt aactacagtc agtctgtgca atgaaattga tgttggagtt ctatgtgtgt 300
ggcatttcat gttgaaaaca gatggtagtg ctcctagaaa tatttcttct tctagcttat 360
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gtggctggaa ggtaaaggtc taagctttgt gaaacactat acatatataa tctatattta 480
cttatattgg caattaatat aacagtaaaa gtcacaatac acctagaaca taccagaaaa 540
gcaagctttg tcattcctgc tttaccggta tgatctcgtc taaacaaaca tttcatttca 600
gaaaatctgc atcaatctac acggaccata cacagtgcac aaactgaaaa gggctttttt 660
ttttttttt ctagctccac catctctgca acttgccaag atgcggcaag actatctgca 720
acaaagtaaa atatacaggt tttttattcc accagtgcct cagataggaa aaagatatga 780
ttacggttta aatccataca tagcagctta caatacttaa gatgatgaac acatggcagt 840
caagacaggt aatttttcct cacaacagtg catggctaaa aataaagatc taacaacgat 900
ctgtgaaact gcactgcaac gtcaaggttc gttcttccct gaccctcccc cgtataatca 960
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ccttcatctg atttctggat agcttggatc acacccttgt atatcctaaa gctgatggtc 1440
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tacaggaggt caacaactgc agaggagcgt atcacaggct cagatgcagc aggaagagca 1620
aaaagggtct catccactga gcccgaggag cccctgcgct tgggcgcggc cggggtggag 1680
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ctggccgggg ctcgtgcc 1758

<210> 1944
<211> 1575
<212> DNA
<213> Homo sapiens

<400> 1944
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tggcaacaca gcacacttta gagcattggt tgtttactct cttgatggta tggctgccca 120
gcatcaagag ttatcatact gcaaatcgat agcccaggaa aagagcaaaa ttcaaagttc 180
aaagtagagt ttttactgaa tgcttgcttt tgcaccgtcg taaagttgaa aagaatttaa 240
attgaaccat cataagctgc agactgtgca ttttatattg aaaagttaat atttttaatt 300
tttaatgcag agaagtaccc aaagcataag aacacaacac attttcacaa agcaaacaca 360
gccatggaac cagcacccat atcaactaac aaaatactag tttgggcttt tttgtacttt 420
atacaaatgg actcatataa tgttcatctt ttgggtctgc ctgctttcat tcaatattag 480
gtttgtgggt tcatctctgc tgtgtgtagt tctttcctgt tctttataca gtgttccaaa 540
gtatagtata ttacagttta cccattctac tcttgatagt aaatgttttc acatttgggc 600
tattacaaat agtgctgcag tgaacattca catacacatc ttttggtgaa catgtgttac 660
atttccaagt acaattgctg ggtgatgagt atgcatactc ttaaaacatg gttgtaccaa 720
tttacacctc tacgacagtg gttccatacc cttgccaact tcattttgtt cattgtaggc 780
attctcttgg gcgtatagtg ttattgcatt ttggttttaa tttgcatttc cctaatgact 840
aatgcagttg aacacctttc caaatgataa ttggccattt ggacatcatc tttcgtgaag 900
atcaagtctt gctcattttt ccaatgggtc gtttgctatt tttcttactg attcccagga 960
atcctttcta tattctgaat accagtcctt tgtattacaa atatgttgta ctctgtgact 1020
tgttttattt ttcaattttc cagtttatgt tgttgattgt tttacttcat cccagaccaa 1080
cagattctaa agcttaatta agctttttga tcagaaaaaa acccaacttg gatacatcgg 1140
agtaaaaact gcttctctca cctgctctac ttatttccct tcagcatttc tagtgagtct 1200
tactacatgc acaagtaaga aatactttta tgctgtttaa tgttcaggtt ctgactaata 1260
agaagacgac cttctttggt ggcaattcta tctctatgat tgattacctc atctggccct 1320
ggtttgaacg gctggaagca atgaagttaa atgagtgtgt agaccacact ccaaaactga 1380
aactgtggat ggcagccatg aaggaagatc ccacagtctc agccctgctt actagtgaga 1440
aagactggca aggtttccta gagctctact tacagaacag ccctgaggcc tgtgactatg 1500
ggctctgaaa ggggcaggag tcagcaataa agctatgtct gatattttcc ttcactaaaa 1560
aaaaaaaaaa aaaaa 1575

<210> 1945
<211> 549
<212> DNA

<213> Homo sapiens

<400> 1945
ctacatagcg aacaagatct tttcagagtg gtgtttctaa aagagcatgt acaaaagtgg 60
cctgtggaca tttaggcctg ggtgatgcat ttgctcttcc tgtttgtgcc aatgtatcaa 120
tgtagagttg ctctgttttc ttcaactgta tttattgctg catttctcag cataaactta 180
tcccattgta ttttttataa ataaatattt tttttaaatg ttctctacag aagatttaaa 240
tcaacaaaaa gatataaaat tgcaaaggtt gctcagtcaa aaccatgatt atcaaggaag 300
caaagcttct ggttccaaat ttggtaatct gctacccatg ttaagtttcc agtttttatc 360
tggttgccct tcagtttagg gaccactggc ccagaacaca cattactggc ttagataccg 420
gcctgacata ggaaagagag tggtagggtg aagagagtca ttctctgcag gctcagagat 480
gtgtaggcac aagggactcc cgctatgtag ggaatcgata tcaagcctta tcgataccgt 540
cgacctcga 549

<210> 1946
<211> 1397
<212> DNA
<213> Homo sapiens

<400> 1946
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cggaatcgtt cggggcaggt gaacagggaa tagaggccgt acaaggcgcc gaacgaatgg 120
ccgaagacgg cttggttttg ggtatcgatg cggtatttgc tgttgagcag ggcggagagt 180
tcgtcatcga gaaagcggct gaagcggtcg gcttggcckt attgtttgcg ttcggattcg 240
ggcgcgttgt ctggcagtgg cggcgtgtag tcgagggcgc gttggcttaa gtcgcggatg 300
gtgctgccgg tgtagccgat gccgacaatc aggcaggcgg catggctttt ggtgatgggg 360
ttgatgagca gggattgcgc catattgagg atggcgggga aaaaggcatc accgtcaagg 420
atatacagca cgggatagcc gcctgtcgga cgctcgccga gtgccgcggc ttgaatgcgg 480
targtgcggc cggtgtkggc ggaagtaagg gcggtttctt cggcttgcag cagagtggcg 540
gcttgccagt tggggcggat gggcatgatg gggtgcttta atcaatgggt tgtttaagta 600
aaagggaaaa aggccgtctg aaaataggtt tcagacggcc ttattgtacc gattcttgtc 660
tttttaacaa tacgcgcgat tagcgtacgt caacgtagga gctgctgtgc agttcgcgca 720
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caaatggggc aaccatcatg ccgtcggcaa accagcccaa atcgccgcca ttgccggcgc 960
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gcggcagacg ggtttttgat gttggggttg tgcgcgataa yggcttcgat ttcgctatcg 1320
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tcaagcttat cgatacc 1397

<210> 1947
<211> 1285
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (315)
<223> n equals a,t,g, or c

<400> 1947
cttgatacat ttgttgaaaa tgaattgatc atatatgtga gtgtttattt ctacattctc 60
tattatattc cattggtcta tatgtccatc cttgtgtcct agagaccaca ttgtgtcagt 120
accacattgt tttgattact gcagctttgt aaaagttttg aaaatggcag gcctgagtct 180
tccaactttg ttctttttca atatgatttt agattgtttg gggccctggg aaaattccat 240
ttacatttta aaatcagttt ttacatttct gcaaataaaa aggcccttgg gattttgata 300

agggttgcat tgaanctgta gatcactggg taatatcgcc aacttaacaa tatttaatct 360
tccaatctgt gaacacagga tgtatagttc tatttattta agtcttcttt aatttttgtc 420
aacagtgttt tgtagtcttt agtgcagaag tctttcacct tcttgtttta atttattcct 480
agctatttta ctctttttga ygctatygta agtggaattt taaaaattga cttccttctt 540
gggctgttca ttcctggtat atagaggcac aaatgatttt cttaaaataa atgttgaaca 600
tgtaccctgc aattttgctg gacttgttta ttagctctac tagtttgtgg attctttgat 660
tttctagata gaagatgtca ttattgaata aagagtttta ctgcttcctt tccaatttgg 720
atgctattca tttacctgtt tgtttattta tctgcctaat tgtcatggtt aaaactttca 780
gtacattgtt caatagcact gggtaaagca tacagccata tcttactctt tgttatggga 840
gaaatttttc agttttttt ctcattaagt atattagttg tggatttttc acaaatcctc 900
tttaacacat tttgaaagtt ccatgttttt atcctgaaag gttgtagaat tttgtcaaat 960
gcttgttctg agtgaattga aatgattgca tggatttttt atccttcatt gtattaatgt 1020
ggtgtattac attgattgat actcttgkac tgaaccaccc ttgkattctt gagataaatt 1080
ccatgtggtc atgatatata atccttttta atatgctgct gaatttggct tactagtact 1140
ttgktaaata aaagatttta gtatctagtt tgtcttttct tgtggtatat ttgtctggct 1200
ttggaatcca tgtaatactg gcctcataga atgtattgca aagtttttc tcctctgttt 1260
tttggaagag tttgagaggg attgg 1285

<210> 1948
<211> 985
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (372)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (386)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (391)
<223> n equals a,t,g, or c

<400> 1948
aaccaatcct aatccctcct aaccccactc atagtccaga gaagataaaa agttcaggga 60
catggtgtac tgctctccag atcctttccc agctgaaact ctatacccat ttagcactaa 120
tttcccattt tccctagccc aagataacca accaccattc tactttctct ttgaatttga 180
ctcctaggta cctcacatat atattcctat ttagtggaat tgtagactat ttatcctttt 240
gtgactggct tatttcactt agcactgttt tctaggttca tccatgttgt agcttctgtc 300
ataatttcct tccctttaa ggctgaataa ttttccatgt gtatatgtac catatttgtt 360
catccattca tncatgatag atactngagt ngctctacct tttggcaatt gtgagtgatg 420
ctggttatga acatgggtgt acaaatgtct gttttgagtc ctkgtttkgc tttcgtgcat 480
tctattaaaa atgttaaggt tcttkgcttt ttacttttt ttctctttta tccacctttt 540
gactttattc ttaaagtttw atcttggtat aataatttat ggtatgttgc agaattagga 600
gcaaagtccc gtgtgtcctt cactcagttt cccccaatgg taacattttt cataattaca 660
gcacaatgtc aagaccggga aattgacatt gatacagtcc atatacaggt gtcccttggt 720
atctgtgggg gattggttcc agaaccctcg atgataccaa aatccatgga tgcttgagtt 780
tattagataa aatggcatag tgttttcaca taacctacac acatcttcct gtatacttta 840
aatcatcttt cgattactta taacacctaa tataatataa atgccgtgta aatagttata 900
ttgtattgat tttatttgta tttttttttat tgttgttatt tttcattgtg ttttttccct 960
gaatattttc tatctgtgat tggtt 985

<210> 1949
<211> 961
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (539)
<223> n equals a,t,g, or c

<400> 1949
gcattgtgtt accatagatt agttttgact gtttttaaat tttgtgtaaa tgaaatttgg 60
caatccatac ttttctatgc cttgtttctt tcaatcaaca aaatactact gcatattatg 120
tttttgtatg tatcagtagt cttcctcatt ttattattga atagtagtca attgtgtaaa 180
tacaccgcaa tttatctata cacctacttt tgaatgttgc ttttttccca agtttttca 240
tattatgtat aactaccatg aatattcatt acaagtcttt gtgtggactt aatttttag 300
gagtaaaatc ggtgaataat atagtaggtg aatgtttaat ttttcaggga attgcaaaat 360
tatttttata gttgttatac cattttatat ctccaagagc aatgtttcat acttccgttt 420
gctctctatt tttgaaaacc attgatgttg ktagtattta tawttawttt tgccatycta 480
tgagtatctt tctcaatatg gctttaattt ggatttkgag agtctatagt ctttgctgnt 540
ttatgtgctt attggtcctt tttatatttt tctttgtgaa atatatttgt gaaatattta 600
ctgttaatta acctatatct aagcttttaa cttaatatct ttatacatat gtttgtattt 660
ataggcataa tgcagtgcta gattttctta attataaatc atgtamgagt acaaattgta 720
agcatttgta gccaaaatat taggagtatt ttgtggtcta ctgtaataaa atactgttct 780
gaaagtcact actgttattt tccaacttaa aaaaatggca attgtgctat ttctgagacc 840
aaaaaatttt tgagttcaga tggctctatg ctgaccaaca gatggatcag gaaatagcag 900
atggttttat gagcagttct gtcatctcag catctgaaat gctttacatg ccaatgctat 960
a 961

<210> 1950
<211> 1017
<212> DNA
<213> Homo sapiens

<400> 1950
tgacacatta atcaaagaaa atgtccatcc cacatctttg gtgtcatttt tttaccttct 60
tacttccttg cattaagagg caaaagatcc atatcaaatt atgccatgtc ttttgataaa 120
tacatttatg tgaaaacata taactcataa ctcttgattt ttttcaccaa agaaagtagc 180
tgataataaa aaatgttcca tttttcgtag cacaagctct atcaatttga gcttgttgat 240
gcatttaagt gtgatgacat taattacact ggcaaacact ccaaaagcgc actttctttt 300
atagcaaaat gccttttaaa taaaatgttt tcaaatctgg cgaagaaagt ttagaaggga 360
gataagcctc attattactt gtgattatta taaatattaa acccttttat gtcataaatt 420
atagaacctt aaaaaagaat tatcagcttc aagctaaatg ctaaaataat ttttcttcat 480
agcaatatat ctcaaagcaa tgtgtgcata attataactt ctgatatgtt attagagcta 540
aattttgata tgagaaattt ttaaaacttt atattttaat acaatttaag atttttccaa 600
ttttttttaaa tattgcatat ttgatcaaag tggttgtgat ttaagatgta aaaattcccc 660
atttttggta aacaaagtct tgtcaaagga tgagtagaaa ctacgtagct atgaaaaggt 720
taattcatat attaggaaca gttttactgc agaaaattta aatcggctta aaatgtttat 780
accctcccac tttctactgc accaactcta taatgaggta ggtcaattga gctttttacc 840
tgctttcaaa aatagcacaa aaatagttct taagaattac gttgagtgag aatcagagat 900
tgaaaattat ctgcaagaat atgtataact tccttctccc ggcaccatca aacgtgtttc 960
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<210> 1951
<211> 822
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (47)
<223> n equals a,t,g, or c

<220>
<221> SITE

<222> (799)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (809)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (815)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (819)
<223> n equals a,t,g, or c

<400> 1951
acccatggat ttccgcccaa ggctcggaaa ttacccccttc acttaanggg aaccaaaagc 60
tggagcttca cgcggtggcg gccgctctag aactagtgga tcccccgggc tgcaggaatt 120
ctcggtcata ggatatgcat attcggttta gtaaatactg ccagtttttg aaagtgattg 180
tactagtttt acattcccag caatagttgt ataagatttc ccttgttttg catttttacc 240
aatacttaaa atggcctgcc ttgagttgtt gatacttgtg tcatttttga catctgtcat 300
ccagactcaa cctcctaggg agcttgaccc ttccctttt tcagttttct ctctagccta 360
ggttcagtca gcaagaccta tcagattttt cttttatatt gcctttgtcc ttcctccatt 420
gccacagctc aaatattagt catatatgga gtaaatatca ggtgatttgg atatcaggat 480
tatgacagta gtctgccagt tggtgcatct tctagtattt ctgcttttcc aataaatcct 540
gcacagccaa gaaaatgctt catgaaacac cgcaccattg ctctgctcaa aagccgtcaa 600
caacccttca ttgcccattg gatatcagcc ttcctccccc tcttcctttt ccacctgtac 660
ctctcttcct tcctcccttc ttccgttctt ttttttaat taaagtgtaa tatatatgaa 720
gtgcactatg accgagaatt cgatatcaag cttatcgata ccgtcgacct cgaggggggg 780
cccggtaccc aattcgccnt gggttccana gaagntcant ag 822

<210> 1952
<211> 822
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (47)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (799)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (809)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (815)
<223> n equals a,t,g, or c

<220>
<221> SITE

<222> (819)
<223> n equals a,t,g, or c

<400> 1952
acccatggat ttccgcccaa ggctcggaaa ttacccttc acttaanggg aaccaaaagc 60
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ctcggtcata ggatatgcat attcggttta gtaaatactg ccagtttttg aaagtgattg 180
tactagtttt acattcccag caatagttgt ataagatttc ccttgttttg catttttacc 240
aatacttaaa atggcctgcc ttgagttgtt gatacttgtg tcatttttga catctgtcat 300
ccagactcaa cctcctaggg agcttgaccc ttccctttt tcagttttct ctctagccta 360
ggttcagtca gcaagaccta tcagattttt cttttatatt gcctttgtcc ttcctccatt 420
gccacagctc aaatattagt catatatgga gtaaatatca ggtgatttgg atatcaggat 480
tatgacagta gtctgccagt tggtgcatct tctagtattt ctgcttttcc aataaatcct 540
gcacagccaa gaaaatgctt catgaaacac cgcaccattg ctctgctcaa aagccgtcaa 600
caacccttca ttgcccattg gatatcagcc ttcctccccc tcttcctttt ccacctgtac 660
ctctcttcct tcctcccttc ttccgttctt ttttttaat taaagtgtaa tatatatgaa 720
gtgcactatg accgagaatt cgatatcaag cttatcgata ccgtcgacct cgaggggggg 780
cccggtaccc aattcgccnt gggttccana gaagntcant ag 822

<210> 1953
<211> 1087
<212> DNA
<213> Homo sapiens

<400> 1953
tatagcattg aaaatcaaat aatctaaaag aaaaaaaaca aacaaaaaaa taattaactg 60
aggagaaaag acaactacta tcagagaaca ggtcataaca agatacttct tttccccaaa 120
gccattgcta gctagtatat atatattccc ttccccctgta gtttgttcca aatttcaagt 180
gtgatgatag tttatttgca caaacgagac agacaaaagt tattctaact agaatgcatg 240
ctctctgaga gcaagactaa tacctctgat tcttttagag agcctaggtc atgtattttg 300
ggtgtgggag gccagattgt gccaccccca aatatgaagt attactgagc taaagacaat 360
taagggaagc aaatgcagga aagctctcta ctcttcctct ctttgtctta aagcaggaca 420
tagatttata aggacaaaag gcatcccacc cctctttctc caagtagaac aaaggttaac 480
cactaaagac aacttttgac cctgattgtc tagagatggt actggaagaa ttttcatgca 540
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tgtggtccaa ccccagccaa taggcaaagg acacagaaac aggaactgca ctagggttaa 900
aagctccttc ctcctttgtt cagtgtgctc ttgtgattgc atcaggtgca agtagtaccc 960
ttctgcagaa gtaaagttgc cttgctgaga aattttctgt ctgaatgcgg gtttcttttg 1020
gctacactga gcacttgttt ccaacaatgc tatagaattc gatatcaagc ttatcgatac 1080
cgtcgac 1087

<210> 1954
<211> 1220
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (958)
<223> n equals a,t,g, or c

<400> 1954
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tgcaacaaaa tgagaaataa gaaccgttac aactgagatt actggagtct cttccggaag 180
acaaattatc actgtaatat gtaatatgaa catgtgaagg tctggctcat gttttatgat 240
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<210> 1955
<211> 951
<212> DNA
<213> Homo sapiens

<400> 1955
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aagttacgta gtcaggagaa ctagtacgaa aaaggaatca ggtctgtgtc agagtaaaaa 900
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<210> 1956
<211> 1071
<212> DNA
<213> Homo sapiens

<400> 1956
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aagttctatt tttctgcctt ttaaaaaaca gaatacttaa agtaatttca caaaaaaaat 420
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<210> 1957
<211> 563
<212> DNA
<213> Homo sapiens

<400> 1957
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aggctgttaa gtgagacacg cctaaattaa gctatgagga aataaataca gctccagcaa 420
aaatagaaat aattttcaga ttatccatgc ttttgtttcc ctggttttct tcgaacctca 480
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<210> 1958
<211> 2930
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1911)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2687)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2700)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2775)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2888)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2897)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2907)
<223> n equals a,t,g, or c

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PCT/US2003/035959

<220>
<221> SITE
<222> (2917)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2918)
<223> n equals a,t,g, or c

<400> 1958
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gattgcgtgt gaatttgaac catgagacat tcctaataat ttgttgtgag atataccaag 180
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<210> 1959
<211> 932
<212> DNA
<213> Homo sapiens

<400> 1959
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cctcacggtc acgtccaaca acaccactgc accagggaaa tggatatata tttttggact 180
ggtgtttttc acaaagtatt tttcaatcag agttttcaga acctgacatt gttaaagata 240
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tccaccattt caggaggtta tcagaattaa taaaagtatc tgttatgtgc acttaagccg 360
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<210> 1960
<211> 2904
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (2899)
<223> n equals a,t,g, or c

<400> 1960
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<210> 1961
<211> 1959
<212> DNA
<213> Homo sapiens

<400> 1961
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ggagtctcac catgttggtc aggctggtct cgaactcctg acctcaggtg atccacccac 1860
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atattaagcc ttcttgctct caaaaaaaaa aaaaaaaaa 1959

<210> 1962
<211> 1139
<212> DNA
<213> Homo sapiens

<400> 1962
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<210> 1963
<211> 2455
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (2454)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2455)
<223> n equals a,t,g, or c

<400> 1963
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ccttttattc cacattaaat gggaattgtg cctacttagg agtgcccctc caattaatta 480
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<210> 1964
<211> 772
<212> DNA
<213> Homo sapiens

<400> 1964
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atttaaaata ctcctgttat catgttgtta tttttagttt cacatttggc ctgagcacaa 180
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ctggtgttgt ttggtaaaat attctgtgtt tatggatcct gttgattaat gatgttattc 360
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tccccaacag taattgtgga atttttttatt tcttctttca gttctatcac tttttgcttc 480
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ctgaagtata ctttgtctta cactaataca aggtataatt gctgcatttt taaaagttaa 660
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<210> 1965
<211> 1481
<212> DNA
<213> Homo sapiens

<400> 1965
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aatccttgaa ggtatatcta ggtttatgac agtaattgtg tttacatttt atggtgccta 600

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aagtcaggaa tcatcaggaa cgtttagctg acaaaatact tgtctgtttt aaaaacctgt 780
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<210> 1966
<211> 1377
<212> DNA
<213> Homo sapiens

<400> 1966
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taatttggga ggcaggggga atcagaaggc ccttctttat aatgagctat tcatattgca 180
ggagtcagaa tgaattgata caggtgaatt tttagttaca ggctaaattg cataaaagct 240
ttgtcagctt ccagcatcag gggagtcatt taatagcctt tttccttatt tgctagtatg 300
gttaaatgag aaaatagtaa aatagataca aagtcatcta tatagtgtga gaacgtgggt 360
gacttttca aagtttataa tttaaaaagc tccaaataac tggctttttc aagagactta 420
tactcatgct cttggctata ctgtgaatta ctgaaatgtt gaacaaacct gtgaaagaca 480
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cttagtgcag gttacttgta gattctagtc ttcacaggct ccctggggct cttaactagt 600
cacactggga gtcatgaatg tctttccaat aattcaggga attctagaga tcctcaaact 660
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<210> 1967
<211> 1173
<212> DNA
<213> Homo sapiens

<400> 1967
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tagtcctggt cctcatcctt ggggcctgca ttgtagtaca cgcggtaact gtgactagcc 180
tgggcaacct gtttggtgga gccggtcaga cccaacagtc ttgggtggaa gtcctggacg 240
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gccctcaggg ccagccaggc cccaccgagt ccagccccga acaggcctgt gatcagcagc 600
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taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 1173

<210> 1968
<211> 1098
<212> DNA
<213> Homo sapiens

<400> 1968
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tggaccgggc tgctggtgac ggcgactgtg gcaccaccca cagccgtgcg gccagagcaa 180
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<210> 1969
<211> 692
<212> DNA
<213> Homo sapiens

<400> 1969
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acgcgggcca ctgcccgcaa gctcactgat gccatcaagg acaccaccaa gttccctgct 180
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<210> 1970
<211> 658
<212> DNA
<213> Homo sapiens

09560350.030204

<400> 1970
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<210> 1971
<211> 1134
<212> DNA
<213> Homo sapiens

<400> 1971
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<210> 1972
<211> 1175
<212> DNA
<213> Homo sapiens

<400> 1972
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<210> 1973
<211> 553
<212> DNA
<213> Homo sapiens

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<210> 1974
<211> 1463
<212> DNA
<213> Homo sapiens

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<210> 1975
<211> 475
<212> DNA
<213> Homo sapiens

<400> 1975

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<210> 1976
<211> 636
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (622)
<223> n equals a,t,g, or c

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<210> 1977
<211> 520
<212> DNA
<213> Homo sapiens

<400> 1977
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<210> 1978
<211> 1506
<212> DNA
<213> Homo sapiens

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<221> SITE
<222> (1359)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1410)

<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1446)
<223> n equals a,t,g, or c

<400> 1978
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<210> 1979
<211> 906
<212> DNA
<213> Homo sapiens

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aaaaaa 906

<210> 1980
<211> 774
<212> DNA

<213> Homo sapiens

<400> 1980
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<210> 1981
<211> 1236
<212> DNA
<213> Homo sapiens

<400> 1981
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<210> 1982
<211> 2071
<212> DNA
<213> Homo sapiens

<400> 1982
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<210> 1983
<211> 1467
<212> DNA
<213> Homo sapiens

<400> 1983
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<210> 1984
<211> 1201
<212> DNA

Attorney Docket No. 55966-4

<213> Homo sapiens

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a 1201

<210> 1985
<211> 617
<212> DNA
<213> Homo sapiens

<220>
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<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (29)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (39)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (41)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (154)
<223> n equals a,t,g, or c

<400> 1985

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ccttcttttg tgtgggtatt ttcttttgat tttnagaatt ttacttgtaa acatgctaca 180
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attgtctgat atttctgcat aatactcaat tcaacttacc tgctattgtt tttatcatat 300
ctctattaca aacattaggc ccatttccct tttttaaaag aggaaagttt gaggttatgg 360
gcggtgttct gataaaataa ataatatttt gtcatgtttg ttttttcatt gattaggaaa 420
cattgttttg aatttaatgc ctcaaatttg gtgcacaata atttgaaggg aaaaactgac 480
aagtttgaaa tgaacattga tattacataa tttacattaa aatgatacat cttttgtaaa 540
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<210> 1986
<211> 637
<212> DNA
<213> Homo sapiens

<400> 1986
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gttttgccat gttggccggg gtgctcttga actcctggcc tcaagtgatc cacccacttc 180
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cctcggtatt aagtccagca tgtattagct atttttcctc atgttctccc acccccccgcc 420
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aactcga 637

<210> 1987
<211> 1610
<212> DNA
<213> Homo sapiens

<400> 1987
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catgctcatt ttaatttcca gtagcatgag caagtaactt atatttcatt cccgagaaac 180
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gatggttata tcattatagt tctctgctct tccacacatt tttgggctgc tatcagtttg 300
taagtaatca ttatacaaac taaatttaaa aatttaaaca agataatttt atattacttg 360
gatcagggaa aaaatgcagt tgctgaaggt ggtttcatag ctaaatataa gcaattattt 420
tgctttttct actttttttgg attttatcat cttttccctt ttagtaatag agtaatacag 480
gtaggaatta acttagcact gccaaattaa tagtaatatt agaactgtgt acacagcaca 540
gggttaaggt tatatagaaa aatgtctcat ccatgtttaa tttggctgac cagcccagtt 600
gattagccaa ttttattgtt ttgttaaatt aaaattctaa atatagttgt ccattgttaa 660
aataagtgag tagggttaaa atagagaatt gataaaaata aagccttaaa aatcttttag 720
ctaaagtagc aggcttcaag tgaaattcag ttttggtctc ctttacagga atagctattc 780
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ccagcatgaa gacggaatct tgtctttgat ctgatttgca aaccgtactt ttattctaat 900
catgtgcaag gtggaggtta tagcgtggga actaaaatct tagtaagtgt ggtttttatt 960
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aagatttagg ccaggcgtgg tggttcatgc ctgtaatcct agcactttgg gaggtcgagg 1140
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aaaaacaaaa atgaaaacaa caacaacaaa aaaacaaaca aacaaaagat ttaaccctct 1440
aggttcagga aaaatccctg agaaagagag agcaaagctt ctatactctg cctaggattt 1500

ctttctcttt ccgggtgaaa aataggcgtt gggatgatac tgagttgata aaagtattag 1560
gaaaagtggc cagtgtctaa attcaagcca ttaaaaaaaa aaaaaaaaaa 1610

<210> 1988
<211> 2008
<212> DNA
<213> Homo sapiens

<400> 1988
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gggttcgttc tgcagccttc gccccgctcc tagcctcagg gccggactcc agcgcagagc 180
ccagcccagc gcagctgcca gcagccaccc agccgcccag ccgcccagcc ccgcacgaaa 240
cccggccaga gcttcctagc agcccgagcc atgaacaccg aaatgtatca gacccccatg 300
gaggtggcgg tctaccagct gcacaatttc tccatctcct tcttctcttc tctgcttgga 360
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tcctgtctga gccctgaaga gccagctccc gaatccccac aagtgcccga ggcccctggt 660
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<210> 1989
<211> 2008
<212> DNA
<213> Homo sapiens

<400> 1989
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gggttcgttc tgcagccttc gccccgctcc tagcctcagg gccggactcc agcgcagagc 180
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actttccact ttttgacacc ttatcctgat gtatggttcc aggatttgga ttttgatttt 1920
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aaaaaaaagt tttgccctat aggtcgac 2008

<210> 1990
<211> 2190
<212> DNA
<213> Homo sapiens

<220>
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<222> (1008)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1026)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1085)
<223> n equals a,t,g, or c

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aacttgctcg actgagagac tcaggactct cacagaagga ggaagaggag gacactttta 180
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aggagtggtt gctaagagag cagaaggcac aagaagaatt cagaataaag aaggaaaagg 300
aagaggcggc taaaaaacgg caagaagaac aagagagaaa gttaaaggaa caatgggaag 360
aacagcagag gaaagagaga gaagaggagg agcagaaacg acaggagaag aaagaaaaag 420
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aatgggtatg gctgtgttcc aggaaagctt tatttacaaa acaggcagct agcccttgct 840
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aaaaaaaaaa aaaaaaaaaa aaaaactcga 2190

<210> 1991
<211> 240
<212> DNA
<213> Homo sapiens

<400> 1991
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tttatcagat tcttaaagga ctctaagaca aaaaaaggct tatgaactga tttaggattt 180
cagtcttatg ctaattcatt agtcattttt aacctttcta aagaaaaaaa aaaaaaaaaa 240

<210> 1992
<211> 686
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (683)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (684)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (685)

<223> n equals a,t,g, or c

<400> 1992
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ggaggggggcc agatactgac tacctggggt aggcacatta tgtgttaaag caagacagag 180
gccagagagg ggcaggtaga cctgcatagc agcagcctca gcagctgtct tggtaaagga 240
gagagagaga catggggcca gtaattccgg ggtgctcaga agttttagga gggaatgagc 300
ctcagggagg agtgagcacc taaatgaacg cagtaaacct tcatggacca acagtgattg 360
aggatttgtg ggcagccaga gggagtctga ctgaagttta cttggaaaga aagggcttgc 420
taagaaaaaa gggagtaaaa atgatgatag ggaagtgtct aatgtatgtg cacatataag 480
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tcattcatta aactactttg gaagcgtcag tggatatatt tgaaagtggt aatcctgaat 600
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tttagctctg aaaaaaaaaa aannna 686

<210> 1993
<211> 1961
<212> DNA
<213> Homo sapiens

<400> 1993
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ttattagaaa tttattctaa tgggaaccca tttttggctt actctgttgg ttgctttgac 480
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attctgcata tttatcaggc aattcataca cacatcccta cagttcagtg tataragctt 600
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atttgaataa cctgcattta ttaatctctg gaaataagtg aaaaactaga aaaggctgaa 900
cgtmcaatca atataatgca atactggggc ctamcaaagt ggataaatga tatttatcag 960
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<210> 1994
<211> 2647
<212> DNA
<213> Homo sapiens

FIGURE 95 SEQUENCE

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<210> 1997
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<212> DNA
<213> Homo sapiens

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EP 2 295 546 A2

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<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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10/552,950

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<223> n equals a,t,g, or c

<400> 2002
ggaaaagttt tattgaatta tagtttttta tattctgttc tcttgctttg gttttctttt 60
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ccttctcttg aattattttt tttcttctaa aagtttgttt tcattgtctg tttctcttac 180
attatgtatt gtgtatattg actcttatgt ttctccttag tcttcttctt aaaatgattc 240
attttatagc caattccttc ctgagttcca tcagctcatt tctgagtgtt tgtcactccg 300
atttatgcta tncttcgtat ctngtagcaa tattaaaagt ttttaaaatg tgaaataata 360
gataattcat ctttgtgtgt atgattctta ccatgattcg gtaagattca cttctngtag 420
aagagttact ctactcctta tttaaannct ytttttttctt gtaataactt tatgtgtgat 480
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gcttgattta agacttacta attttatggt tcttagctct ctctcgtatt tggaagtgtt 600
cagaaacatg gctgcttatt ttctgagatt tctttccttt attccctcac tccactttca 660
aaattaccct ttcttaaagt gtactatttg gtgtttttta gtatattcac agagggagaa 720
accattacca ctatcttatt ttagaagata tttatcaccc ccataagaaa ccccatactt 780
attaatagaa ctcctcattc ctcacttctt ccagcccctg gcacccactc atctaccctc 840
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tcttttgtga ctggcttctt ttacttagca taatgttttc taagttcgtc attctgtagc 960

atgtatcagt atagtcattt gctgcataac agagtttcag ggccaggcac agtagctcat 1020
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gagatcagcc tgggcaacwt agtgagacta catcagaaaa aataaaatag acaggcatgg 1140
tggcacgcac ctgtggtccc agccactcag gagggtgagg ttggaggatt gcttgagttt 1200
caagaggttg akgctgcagt gaggtgtgat cgcaccaytt ccagcttggg caacagagca 1260
agacaccytw tctcaaaaaa tctaaaacga acaaaaaaaa aaacacgaca tttcagtcaa 1320
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aataggataa gatgtggagg tggaagatag tgatattgat gatcctaacc ctgtataggc 1440
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gcggcc 1506

<210> 2003
<211> 1424
<212> DNA
<213> Homo sapiens

<400> 2003
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atgacacagt tggacttaga aattttagga tgctaaggac tgacttaata aagctttcct 180
ggtatctcag acatttttta aaaggctgta tatgagtttg tgtatatgtg tatgtgcaca 240
tgcatttctg gaaaggcttc ccctccaacc attaaatata taattaagtt ataaatgtgt 300
tgtttataat gagaaataaa taccacactt gacaatgtct atttccaaag aattgggtat 360
ttttgtgctt ttgtttattc ctggtatttt catatcatcc tgttacacac gtgagcagag 420
aatgtgtgta tcatccatat ttaatttaca gtcatagcta gactaagtta ttatccaatg 480
ttattgaaag aatcagtagc acagatagaa atgaattagt tcctagtata cagttttctt 540
ggcctttctc ttaaccagtt tgctttctta gagaaatgaa ctgatctgac tatgattaag 600
atcatttatt gctagacaga agtaaaatta gagattatcc atagaacatt ttaatcttgt 660
aatttatttg gtgtgttgta gaacacctga cttttctcat tgtatttggt aaatgtgtta 720
aaaatgttaa gtcagtgtta tctggtttta ttttatctct tgagtcatgt ttggcatgta 780
tgtgttgggg gggtgggcat aggagttaca catttaagaa agccctatct tttagtagaa 840
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gattgatcta gtgatgataa acctattgta tgtggcataa gccagagaag tcagcttcga 960
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gcctgttagc atccatgtat tctatcagta gactttattg agtcctgtca tttgtatggt 1080
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gaatttgaaa ccagcctggg aaacatactg agatcctatg tctacaaaat ttttaaaatt 1260
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cttgggtgac aacatgggac cctatcttaa aaaaaaaaaa aaaa 1424

<210> 2004
<211> 1348
<212> DNA
<213> Homo sapiens

<400> 2004
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tgaatgatta aagctgtact taccttttctt aaaattcact gcttgggatg ggctggtaac 180
agtttcgagg ttactctcat taggcttcag tgttaagtac actatacccc attttcttgg 240
gaagtgaaca gcaacatcta ctctgttaaa atcattatac attgtgtctg ctttcagatt 300
tcttcctttt agtaattagt gttgtgtatg tgttagattt ttttttgtct ttactgaaac 360
acacccttg gaattccttt agcgaatatg ctcttttggg tggataacct aataagcttt 420
cctctttgag ttttctgttt ttttactcag cacagccatg gaagtaggga tttaattttc 480
tgtcaaactc tgcatctcac aaagcaatag ttactcaaaa cacgactttc aagaaggtta 540
ttctttttaa gctttcagca gatgagctga gtagcagcag gaaagcaggt attgagaact 600
gtcttggttt ttgtactgct gttgagtagt aacattgcag ctgtcttaaa tcctgaatga 660
cacagaagct tatggctggt cgtactacat agcaccttga aagtgacagg gcttttcatt 720
tctatctgat ttctgttttt caaaaataaa actccttatt cttttcctat cattgtaaat 780

attcttcagc ttcctatcac taatacatag tctcggcatt agagaccagt taaaataaat 840
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gggctgggcg tggtggctca ctctcccctg tattcctagc actttgggag gccgaggcag 960
gcagattgct tgaggccagg agtttgagac cagcctgggt cttaaaaggt agatattatt 1020
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ttagcgtgag gggcctgcct ctagagacca tgcaaattca acactaagct atactggact 1140
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cccacacctg tagttccagc tacttgggaa gctgaggcat gaggattact tgagccaagg 1260
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agaccctgtc tcaaaaaaaa aaaaaaaa 1348

<210> 2005
<211> 849
<212> DNA
<213> Homo sapiens

<400> 2005
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tcatctgttt ccctgatttt tgactctccc ctttccagtc atttctttcc cacccatccg 120
cagtcctgga aacatttatt ttttcttttg cccactgttt tcatttgctc attaaattaa 180
aatgactgct cggctcattg ggaatccaca tccccaagtt agactgggga tatgctctct 240
gtactgtctc cttctatgga attccacccc acccagagag agatgacttc acagtttgtt 300
catatgagca tcatcccatg tcgtccccaa cccagggctg gtaggtgcta cagcttgtgc 360
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agacaatcag aagtcagttt ctaacaaata gcaacagcca caaatctctt cctccttcct 480
ctctgacatt accctgtgca acttttctca aagtctgttg caccactcag caaagcaagt 540
tgcaccagct atatcagaat cacctggggc agcctattaa aaatgcagac tgttgagacc 600
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gcttgcagtg agctgagatt gtgccactgc actccagcct gggtgacaga gcaagactcc 780
gtctcaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 840
aaaaaaaaa 849

<210> 2006
<211> 1519
<212> DNA
<213> Homo sapiens

<400> 2006
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tttccggtag tattccatgc tatggatgta ccacagtcgt gctctttttg ttaatagaac 180
taaagcaact ctatggagct aaggtaactg ggtacagctg agtagtgatt taaagtttct 240
ggagtgtttt cagaaatacc atctcacctc taacaaggcg atctcaagtc acttatttgg 300
gaaaacaaaa ttacgaagat atgatttctt tcattgttgt agaaccatta aataagtcat 360
cagattatga tttgaaccca gggcacccag tcaagtgctc tttccctatg cggccttagc 420
tacggggatt tacatttaca gttgagaagt gaaacaagaa aaatttgttt ttgaaacata 480
atagtaccat ctagcctggc tgaccaaccc ttccccagca ccaccagtgg acatgcgcat 540
gtacatacac acatacatac ccacacttta ggctgaggga gaatcttgtc tttttgaata 600
gccttcatag taacctctgg gattcaaggg tacctgatat ttaagacctt tattaaacct 660
tggttcagtg gttttcaaac atttttgaat atcagaaccc cttttcctaa tggactgttt 720
catagaaccc caaaatgtgt aacaggtaac agcaatagtt ttgaaagttc aaaatggata 780
atctttactt gtgaggtcgg acatgtgaat ggtgggcata ttcccatgat tctaatatgc 840
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tttctctatt tggttataca acagtgagac aagcgtgatg cacatggcca ttgtcagggt 960
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gaggattgct tgagcccagg agttcgagac cagccctgga aacatagcaa gatcctacct 1320

ctacaaaaaa attaaaaaat tagctgggca tggtgatgca tgccagcaga cccaactact 1380
ccagagactg aagtaggatg atcacttgag cctgggagtt caaggctgca gcgagccctg 1440
gttattctgt tgcactccag cctgggtgac agaatgagac cctgtcccca ccctcccccc 1500
caaaaaaaaa aaaaaaaaa 1519

<210> 2007
<211> 1292
<212> DNA
<213> Homo sapiens

<400> 2007
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attgtgatgt ttcatgcacg taagttttca attttgatgt aatcttgcta cttgtcatct 120
ttgcttttgt ttcctgtact tttgtgtcat atccaatcat gtgtattata tatatatata 180
tgcacataca cacacatata tatatataca acagatatat ataaaatgaa atattattca 240
gtcttaaaag ggaaagaaat cctgtcattt gcaacaacat ggatgaacct ggaagacatt 300
atgctaagtg aaataagcca aacactgaaa ggcaaatagt gcatgatctc atttatatgt 360
agaatcttaa aaaagtgaaa ctcatagcag cagagagtag attggtggtt cccaggggcc 420
cgagagagga ggtaataagg agattttggt aaagggtaca aactttcagt tatgcaaaat 480
gactaagttc tggagatcta gtgtagagca tagtgactat aatgaacaat acagtattgt 540
atactaaaat ttgctaatag agtagatctt aaatgttcac acacacacac tcacacatga 600
aagaaaatga taactgtatg aagcaatgat atgttaatca gcttgattgt agtgatcatt 660
ttacaatgtg tacttatatc aaaacatcag gttgtatacc ttaaatatat atgattttta 720
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atttggcaat gacttttgg acatgacagt aaaagcatag gcaacaaaag taaaaataga 840
taaattggac tacatcaaaa ttaaaaactt ctttgcatca gaagtcacaa tcaacaaagt 900
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aacatggtga aaccccatct ctactaaaaa tacaaaaatt agctgggcat ggtggcgcat 1140
gcctgtaatc ccagctactc aggaggctga ggcaggagaa ttgcttgaac ccaggaggca 1200
gaggttgcag tgagccgaga tcttgccatt gtactccagc ctgggtgaca gagcaagact 1260
ctgtctcaaa aaaaaaaaaa aaaaaaaaaa aa 1292

<210> 2008
<211> 1292
<212> DNA
<213> Homo sapiens

<400> 2008
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tgcttttgtt tcctgtactt ttgtgtcata tccaatcatg tgtattatat atatatatat 180
gcacatacac acacatatat atatatacaa cagatatata taaaatgaaa tattattcag 240
tcttaaaagg gaaagaaatc ctgtcatttg caacaacatg gatgaacctg gaagacatta 300
tgctaagtga aataagccaa acactgaaag gcaaatagtg catgatctca tttatatgta 360
gaatcttaaa aaagtgaaac tcatagcagc agaaagtaga ttggtggttc ccaggggccc 420
gagagaggag gtaataagga gattttggta aagggtacaa actttcagtt atgcaaaatg 480
actaagttct ggagatctag tgtagagcat agtgactata atgaaccata cagtattgta 540
tactaaaatt tgctaataga gtagatctta aatgttcaca cacacacact cacacatgaa 600
agaaaatgat aactgtatga agcaatgata tgttaatcag cttgattgta gtgatcattt 660
tacaatgtgt acttatatca aaacatcagg ttgtatacct taaatatata tgatttttat 720
ttgtcaatta tacctcagtg aagctgaaga aaaagagggg aaagacttaa tgatattgga 780
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ctgtctcaaa aaaaaaaaaa aaaaaaaaaa aa 1292

<210> 2009
<211> 935
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (691)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (806)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (861)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (868)
<223> n equals a,t,g, or c

<400> 2009
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gagttgggac tcaatagtaa gtaaccattt tkttgaggtg gtagtgattc taccagggtg 120
agtwatcatg acagcagaat cactgcgttt ttytctctac tctgtggcat agactctatg 180
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cacacttcca tactaactgc cctgcgggga tatttaatga gctcttaaat ggcagaaatg 480
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ttaatgttcc caaattggat ttcacataat cctagtgtcc tttgagactt gaattggttc 660
taggccaaaa aagggtgagg gggaaggaag naattcagag tcaaatttgg caaataatat 720
atccctgtcg ttttgttttt tctttttaag acttgggccg ggtgtggtgg ctcacgcgtt 780
taatcccagc actttgggag gctgangcag gcaaatcacc tgaggtcagg agctcgagac 840
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agtcccagct actcgggagg ctgagacagg agaat 935

<210> 2010
<211> 2180
<212> DNA
<213> Homo sapiens

<400> 2010
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ctctcaactc gtcaaagtca ttctccgtcc agctttgttc cgttgctggt gaggagctgc 180
gttcctttgg aggaggagag acactctgct ttttagagtt tccagttttt ctgctctgtt 240
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tcctctggaa gttttgtctc agaggagtac ccggccgtgt gaggtgtcag tctgccccta 540
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ggcagtctgc ccgttctcag atctccagct gcgtgctggg agaaccactg ctgtcttcaa 660
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tgccctgccc ccagaggtgg agtctacaga ggcaggcagg cctccttgag ctgtggtggg 780
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tgatcataga atatctttgt gttcagttct tctttttttgt atttaaatgc atttttaaat 1860
cctcttgaaa atcattcggc cgggtgcggt gctcacgcct gtaatcctgg cacttctgga 1920
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aaactctgtc tctactaaaa atacaaaaaa attagctggg tgtgctggca ggtgcctata 2040
atcccagcta ctctggaggc tgaggcagga gaatctcttg aacctgcggg gcggaggttg 2100
caatgagctg agattgcgcc actgcagtct agcctaggcg aaagagtgaa actccatcta 2160
aaaaaaaaaa aaaaaaaaaa 2180

<210> 2011
<211> 948
<212> DNA
<213> Homo sapiens

<400> 2011
ggcacgagca agaggctgtg tcatttttta agaggatggc aaggatgacc tcaaatgagc 60
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cttaaacctc ttggcacctt gtgcgggtta taaaacaagg agctggagta aaattgccct 180
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ttggtttcca ttttttgttt gtttgcttgt ttccaaaata gccttgcttg gtactgcatg 300
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gagaaggcgg aaggaaatag ttttcctgtt tccttttctc gaggtggatg tcctcaggct 480
tccttcacac ctccttctca tgggtgcggc tggcagtacs gtcaggctgt ggaggagggc 540
tgagaagaaa ggggcactgg tccagcccca ggtttggtct gagacaggta cacagcagat 600
accatcccac cttcctctct aaagaacagg ccagccacac atataaccct ttccctactt 660
tactaatgta tcccttatgt ggtaccagca atggaggaca ggcagactta ccccctgcca 720
tctagagaga atgttgttat tacccgtaaa acttgaccac ccccatatcc cactcctttt 780
tgtaaaaaca aatgcttaaa cctgtgagcc tgccgttcct ttctatgtgt taatcagttt 840
ccttccattt gagctgtgtg ggagggaagg gcattgaaat tgtaggttgt aatcttgtgc 900
caaccaataa aaaccagtat ttcacacaca aaaaaaaaaa aaaaaaaa 948

<210> 2012
<211> 844
<212> DNA
<213> Homo sapiens

<400> 2012
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gagctttatc acaagccttc actgtcctgg catgagaact ggctgccagg ctcagtgtac 180
cccattaact gtgaatgaat ctgagcttgg tttcctttat tgcttcctct gcaatatgat 240

tgctgaaaca cattttaaaa attcagaagc ttgtcactcc tgttaatggg aggatcagtc 300
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aaaa 844

<210> 2013
<211> 608
<212> DNA
<213> Homo sapiens

<400> 2013
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caatgaacaa aaaaagctgc acagagtttc tgattggttt tataatgaga tcattatcct 180
agcttgatca tgttatagaa accactttcc agtccataaa ctgcaatgta gaactgaaag 240
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cctctttggc agcaggttct gtgaggtgac tgttacagga agagcattgc aatctgtaag 360
ctcagctatt tggtctgttt ctagagatgt gaaaaaagaa aacaacaaca aacgtttgag 420
ttatttttc ccccaaacag ggactctgtg gtaatttcat tattggtagt tgcaaaggaa 480
aaagcactca aatgaaagaa attaatgtcc aatttgcctt tcagtggccc gaagcttatc 540
tgatagccat tgcaatcgaa tgaatggatg acttttaaag agaaaaaaaa aaaaaaaaaa 600
aactcgag 608

<210> 2014
<211> 1595
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1284)
<223> n equals a,t,g, or c

<400> 2014
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tccgcacgaa ataaatcaga atgagttatg cagaaaaacc cgatgaaatc acgaaagatg 180
agtggatgga aaagctcaat aacttgcatg tccagagagc agacatgaac cgcctcatca 240
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gaatcgaacc tagtgtggat ctggaaacac ttgatgaacg aatcaagatc cgggagatga 360
tactgaaagg tcagattcag gaggccatcg ccttgatcaa cagcctccac ccagagctct 420
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gccagcggga gacagaggcg gcgctggagt ttgcacagac tcagctggcg gacagggcga 540
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cggtttgctc ttccagtgtt cgggggcctc tggctgctga aggattcggt ctaccacgga 1140
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tcttctgggc agttttgttg aaaataaagg tttctctttg atttcaaraa wraaaaaaaa 1560
aaaaaaaaaa aaaaaaaaaa aaaaaaaaac tcgag 1595

<210> 2015
<211> 953
<212> DNA
<213> Homo sapiens

<400> 2015
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ctctgcatgg acaccactca ctcctgaggc tgctggcagc atgtaccctc atcctgcctc 120
actccttagc agctagtgtg aacgtgaaga attgagaaat atagtgatca catcagtgtg 180
tattcattct ggtcagcaaa ctaggcatat cttaagtttt ttaggaaatc actgttggcc 240
tccttttgtg tatcatagtg caaaacagtt ttaattagtt gaattattat agatacacaa 300
gaatttagaa aatgcgtctg ggcgtggtag ctcacacctg tagtcccggc actttgggag 360
tccaaggcga atggatctgc ttaagtccag gagtttgaga ccagcctggg caacatggtg 420
aaaccctgtg tctacaaaaa ctaccgtgtc tacaaaaaaa ttagccaatc atggtgttgc 480
atgtctatgg ttccaactac tttgagaggc tgtggttgga aagatcactt gagcccagga 540
gttagaggtt gcagtgagcc gagatcacac cactgcactc cagcatgggc aaaaaaaaat 600
gagactcttg tttaaagaaa aaaaaaaaga gtttagaaat ggccattacg ggccgggcgt 660
ggtgctcacg cctgtaatcc cagcactttg ggaggctgag gtgggtggat catgaggtca 720
ggagatcgag accatcctgg ctaatacggt caaacccmgc ctctactaaa aatacaaaaa 780
atcagctggg cgtggtggca ggtgcctgta gtcccaacta ctcgtgaggc tgaggcggga 840
gaatggtgtg aacccgggag gcagagcttg cagtgagccg agattgcgtc actgcactcc 900
agcctgggcg acagagcgag actccatctc aaaaaaaaaa aaaaaaactc gag 953

<210> 2016
<211> 1320
<212> DNA
<213> Homo sapiens

<400> 2016
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ttaattatag tagttttgtg agtctcagta tctgatagtt aaatcttcca gctttattcc 180
tcagagtgcc ttggccattc tttttttgtt tgtctgtttc aaaaaaaaaa aaaaaaaaat 240
tccagagtct agaaattcgg tcatttttct ctttatgtaa ggtaagaatt aagaatcctc 300
acatctgcaa ccaaaaatac aagcctggtg tgtaacacta aagggtaaaa cagggataga 360
tataagctgt tatgctattc ttcaggcaac actgtggata agtgacattc agatgtttac 420
tgtaaagaaa aatttgaata catttgtatt gaaggggctt tagaaaagag cattactaca 480
cagaactgag agttgaaaat atgaaggtgt ggaagattaa gagaacgcgt ttactttaaa 540
agataattta aaagttatct ttccaggctg acacggtggc ccactcctct agtcataaca 600
ctctgggagg ctgtggtggg acgatccctc gagcccagga gttcatagac cagcctgggt 660
aatataggga gaccccatct ctatctaaaa tttttttaa aagaaaataa atatctttac 720
agttatttt cttagtccta tgttctttat tttggtgttt tccattggat acctgcatgc 780
caagtgttgt gctacagtat tactgaagag tataatggaa gtaatgtcct gctgaaaatt 840
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ttagcctttt aaaggatttc tgtttgacag cttttataat tgaaagttat tccatttttt 960
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aaatacaaaa attagccagg cgtggtggtg catgcctgta atcccaggta cttgggaggc 1200
tgaggcacag gaattgcgtg aacccaggag gcagaggttg ccagtgagcc aagatcacat 1260
caccgcactg cagcctgggt gacagagtaa gactctgtct ccaaaaaaaa aaaaaaaaaa 1320

<210> 2017

<211> 617
<212> DNA
<213> Homo sapiens

<400> 2017
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cttaaccatc cgccttgccc tgggtggctg caccaatcgg ccgttctacc gcattgtggc 180
tgctcacaac aagtgtccca gggatggccg tttcgtagag cagctgggct cctatgatcc 240
attgcccaac agtcatggag aaaaactcgt tgccctcaac ctagacagga tccgtcattg 300
gattggctgc ggggcccacc tctctaagcc tatggaaaag cttctgggtc ttgctggctt 360
tttccctctg catcctatga tgatcacaaa tgctgagaga ctgcgaagga aacgggcacg 420
tgaagtcctg ttagcttctc agaaaacaga tgcagaagct acagatacag aggctacaga 480
aacataaatg agctgacttc agtgagcata gcagtgggaa caaggtcaag gtccttttga 540
aacactgcag cgatcttaat tttgttagat ttggagttca ataaatggag tatcctgaaa 600
aaaaaaaaaa aaaaaaa 617

<210> 2018
<211> 536
<212> DNA
<213> Homo sapiens

<400> 2018
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ggcgttggcg gcgcggacgt ggcttggcgt gtggggcgtg aggaccatgc aagcccgagg 120
cttcggctcg gatcagtccg agaatgtcga ccggggcgcg ggctccatcc gggaagccgg 180
tggggccttc ggaaagagag agcaggctga agaggaacga tatttccgag cacagagtag 240
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gattgagcgt ctgcagaaag aaattgagcg ccataagcag aagatcaaaa tgctaaaaca 360
tgatgattaa gtgcacaccg tgtgccatag aatggcacat gtcattgccc acttctgtgt 420
agacatggtt ctggtttaac taatatttgt ctgtgtgcta ctaacagatt ataataaatt 480
gtcatcagtg aactgtgaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 536

<210> 2019
<211> 451
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (27)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (34)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (434)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (437)

PCT/US2005/045554

<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (447)
<223> n equals a,t,g, or c

<400> 2019
tcacancaca ctcccctctt taaagtnaac aaangctgca gctcgcgcgc ctgcaggtcg 60
acactagtgg atccaaagaa ttctttttt ttttttttt taactttaag ttctgggata 120
tatgtgcaga acgtgcaggt ttgttacgtt ggtatacatg tgccatggtg gtttggtgca 180
cctatcaacc catcatctaa gttttaagct ctgcatgcaa taggtatttg tcctaatcct 240
ctccctcccc ttgaccccta cccaccagct ggcccaggta tgttatgctc cattccctgt 300
gtccatgtgt tctcattgtt caactccaaa aaaaaaaaaa aaaaaaaaag aattcaaaaa 360
gcttctcgag agtacttcta gagcgaccgc gggcccatcg attttccacc cgggtggggt 420
accgggtaag tggncanttt tcgcggnagt a 451

<210> 2020
<211> 272
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (271)
<223> n equals a,t,g, or c

<400> 2020
attctctttt ttttttttt tttttaaaaa tttgtcagta tgtgccttat ggcccagaat 60
gtggtatatc ttcatgaaag ttccatgtga actcaagaac aatgtgtaat ctgcagttac 120
gagtgtagta gtctataatg ctcattatat acacttgaag aatggtgttg ctgagtccag 180
ctatgtcttt acttattttc tgcctgccag ctctgtccat ttcaaaaaac aaaaaaaaaa 240
aaaaaaaaaa agaattcaaa aagcttctcg ng 272

<210> 2021
<211> 1346
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (14)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (19)
<223> n equals a,t,g, or c

<400> 2021
ttgcagaatt ggcncgaana aaagcagtac tgactctgga gttgagcaga tgtgggttca 60
aacccacatg tacatgtgac cagcagtgtc atcaaagaga gttctgcatt tctctgagct 120
tcagttttcc tcctatgcaa agaggggatc acatctacta ccaagatgca aaacagttag 180
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gtaacataat ctgatgtggc tgactgtgtc atggcttcat acctttcatg ctttggactt 300
ttgtgctttc tgcaggaacg attccaggtg aagaatcctc cccatacata cattcaaaag 360
ctcaaaggct atctggatcc agctgtaacc aggaaggtaa gatggatttg tttccactct 420
ttgttattgc ttccttatta gcgagcagaa tcctcctgca ttggaagaga ccttccttcc 480
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aagaagacaa aggaaaaaaa acaaccttct cacttgaaga tgtgtataaa agttctttcc 600
tgacatgaga gtcacgtacc tctgatggtt gttgagtcac tgctatttcc aattacatag 660

ggcagtgagt gcattccaga ggtattcagg ctcctagaag agcaggcttt gcaaagggaa 720
tacttgcctt tcagtttttt atgccttggt gcatttccag agaccttgaa aaatcactgg 780
gcctttgtca tcccagctgt gcactcacat cctgtgttga tgcttttagc agctcccccc 840
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acctagttag ccattttcag ggctcttgat gcttgcatta aaaaaaaaat ctttttcttt 1260
atcttctact ctaactcttc ctcccctcac cgcccacccc ccgaccaaaa aaaaaaaaaa 1320
aaaaaaaaaa aaaaaaaaaa ctcgag 1346

<210> 2022
<211> 638
<212> DNA
<213> Homo sapiens

<400> 2022
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gtggcggccg ctctagaact agtggatccc ccgggctgca ggaattcggc acgagattaa 120
ccatcagtct gggctgcaac agaggaaaag cagtgatttg gcagtgccaa tgggactcag 180
atgggtaccc agctcctttt tttgctatgc tcaattttaa tccccctatg tgtggagttg 240
gactacatat tcttgaagca gtcttcccta aataatcttg tagtctagct aatgtcaaat 300
gtttaattgg caatgagctg aaattgcctc tccaacaagg gcccatttgg atgccacttg 360
ttctgtgctg ccaggtagat ctatgtccat gtgctttaac aggcagttga gtgtggagag 420
ggatgacacc ctctcttggg aataaaactg aatatatgcc acgccacctt cccttagagt 480
agagttgatg gaatccctac aggcacagcc aagagccttc ttagacaagg cattttgctg 540
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tatttaaaaa aaaaaaaaaa aaactcgagg gggggccc 638

<210> 2023
<211> 923
<212> DNA
<213> Homo sapiens

<400> 2023
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acttgattta aatgacataa aacgacacca aatggtagaa tggacactgg cggtgcttgt 180
ctgtcatctc tttcttattc tttatttgtt tctgttctgt gagaattgcc tagtggtgtc 240
atgctgaacc tgcctctctg tgtaggtggc ctttcttcag tgagtatttg cgaaagtgtt 300
gggaggtagt gagagtcgtt gcatcttttt ctggcacttc cttggtggga ccagccactt 360
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cgagcgcgca gttgaacgtt tctcacctga acaagtcccc ttcgtcatga gacggggcgg 480
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tactgggtct ctattttacc ctcctacaag cctcagagta cttcgagtct cccttcacca 660
tttccgacgg catctacggc tcaacatttt ttgtagccac aggcttccac ggacttcacg 720
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catccaaaca tcactttggc ttcgaagccg ccgcctgata ctggcatttt gtagatgtgg 840
tttgactatt tctgtatgtc tccatctatt gatgagggtc ttaaaaaaaa aaaaaaacaa 900
aaaaaaaaaa aaaaaaaaaa aaa 923

<210> 2024
<211> 1957
<212> DNA
<213> Homo sapiens

<400> 2024
ggcacgagtc gcatttccag acacagcaga aggatgcact tctggttgat tctccttgct 60

gttgtcatga ccaggagaat tctggtccac atccattctt aattggttga ttacatttga 120
tccggaggcc atgaaattgg ccagttgatt ataccctttc agaatggttc tctttgggaa 180
ctgcagtctg gtgttacact ggatggggag tttccttgtg gtttttactc cttctacaga 240
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cagtttggtt aatccacact taccttactt tccctgttca tgttcacatt agtggggtta 1560
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atggcccaga attaagggca gttaaacaaa aagttaattg tgaagaggat aagcttatgc 1740
agccccttc ctgaactttc ctaaatccgt tttattatag tgccctttta ttataaagag 1800
aaaacttctc tgtaggcttt caaagatcag agctcttcag tcccggctat actaaccatt 1860
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tgtcaacccc tgcccccaat aaaaaaaaaa aaaaaaa 1957

<210> 2025
<211> 1870
<212> DNA
<213> Homo sapiens

<400> 2025
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atttatttta caaatgaaat ttaaaaaacc caaggccaaa gtgggaaatg acttgctcaa 120
ggtcatccat attcctaacc ctccttttac tggggcatag ggcaatattt tccaatatgc 180
ctgaaaagct taggtctcta atcacagata acttacagct tttcacaagc aagagttttg 240
gccaaattat gccagttaag gaatgtaaat tttataaatg atgaaatact gcaaccaatt 300
agtgcaaaca aacatttatt gtgaaatatt catcctaccc tttattaggt attacatcat 360
caaagcactt tgtggcaatg aaaatagctt tttttacccc tctaattcac ccaatattcc 420
attaaagctg caaaaaatgt gcaatctgct tgaaaaatag gttgctctta tttactcatt 480
tgtgaaaagt caaaaattaa aaaagaaaat gatactagca tacagggcct ctagagccaa 540
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<212> DNA
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<210> 2027
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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<210> 2029
<211> 2845
<212> DNA
<213> Homo sapiens

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<222> (727)
<223> n equals a,t,g, or c

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<210> 2030
<211> 2576
<212> DNA
<213> Homo sapiens

<400> 2030
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<211> 466
<212> DNA
<213> Homo sapiens

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<222> (449)
<223> n equals a,t,g, or c

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<222> (454)
<223> n equals a,t,g, or c

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<222> (455)
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<210> 2032
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<212> DNA
<213> Homo sapiens

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<210> 2033
<211> 1500
<212> DNA
<213> Homo sapiens

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<221> SITE
<222> (382)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (388)
<223> n equals a,t,g, or c

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<210> 2034
<211> 2384
<212> DNA
<213> Homo sapiens

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<210> 2035
<211> 947
<212> DNA
<213> Homo sapiens

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<210> 2036
<211> 2187
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (49)
<223> n equals a,t,g, or c

Facing Sequence

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aaaaaaaaaa aaaaaaaaaa actcgag 2187

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<211> 937
<212> DNA
<213> Homo sapiens

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<210> 2038
<211> 419
<212> DNA
<213> Homo sapiens

<400> 2038
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<210> 2039
<211> 4049
<212> DNA
<213> Homo sapiens

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<211> 1377
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (19)
<223> n equals a,t,g, or c

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<210> 2041
<211> 862
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (862)
<223> n equals a,t,g, or c

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<211> 1075
<212> DNA
<213> Homo sapiens

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<210> 2043
<211> 695
<212> DNA
<213> Homo sapiens

<400> 2043
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ccgttgaccc aaatcgatgc cagtattttc tgcagttttg tctttggtga gtgtgatcca 180
tgtcactgtg tggtgaggtt tattcacagt cagtctggtc tgtaaaatag aacctgcaga 240
cagtgaacct gaaaagcata ctaggatcat ccaggcctcc ctccccagcc ttggagctgg 300
gaccctcaaa gcagggacat agaaggactt ggagtgagcc acccaccaac tccagggtga 360
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ggaggcggag attgcagtga gccgagatcg tgccactgta ctctagcctg ggcgacagag 660
caagactcca tctcaaaaaa aaaaaaaaaa aaaaa 695

<210> 2044
<211> 721
<212> DNA
<213> Homo sapiens

<400> 2044
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caggagatgt gttgatttgc tccagcaatg aaaccacatc tggtacggca gctgcaattg 180
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<210> 2045
<211> 1029
<212> DNA
<213> Homo sapiens

<400> 2045
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tcccatccac ccactgcacc ttcaccttcc atatcctgaa tgagtttatg tcatgagcat 180
agttggtcat tggttgtgtt ttctaaataa gatgcaaaat attgttggct gctaaaacaa 240
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cccacctctc acacacctat cagttgtatt ttgcataggt ttaaataaat tgatctcccc 420
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gtttatttac cctcatagtt agaagtttgg tggggtataa aaatctagat tgaaaatctg 720
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aaactccga 1029

<210> 2046
<211> 560
<212> DNA
<213> Homo sapiens

<400> 2046
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gggtaagtct ccgggttggt tggaaggact caggtttatg tggagttttg tcttttagtt 180
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acccagctgg ctacatatac agcctcttgc ttcctcttca ctgtctcctg ggctcttcct 300
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agtggtttga gtaagttact tcaaacttct gtgcacttca gtttcttgat ctggaaactg 480
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aaaaaaaaaa aaaaaaaaaa 560

<210> 2047
<211> 1288
<212> DNA
<213> Homo sapiens

<400> 2047
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gagaccacca accagagtag ttctgaccag tctacagagg atgagtagtg tggattttca 180
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aattgaaaag aaaaaaaaaa aaaaaaaa 1288

<210> 2048
<211> 1492
<212> DNA
<213> Homo sapiens

<400> 2048
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atttttgcat cagggatatt ggtctgtagt tttcttgtgt ctttgtctgg ctttggtgtc 120
agagaaatgc aggcctccta gaatgtgttt gaaaagtgtt ccctctgttt cagttctttg 180
gaagatagct gtttgaggaa gattgatgtt aattctttaa gtgttcagca gaattttcca 240
gtgaagttct ctggtcctgg gtttttcttt gctgagaggt ttttgattac tgctttaatc 300
cccttagtta ttataagtgt gttcaaagtt tttatttctc catgattcac ccatggaaaa 360

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atttctactt ttagttattt gaacttcttt ttttcttagc taatctagct aagggtttat 540
taattttatt gatcttttca aaaaccaact ctaggtttct ttgggttttt ttctgctttt 600
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<210> 2049
<211> 899
<212> DNA
<213> Homo sapiens

<400> 2049
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attgatcaaa aaaaaaagga ggatggaagt acgtacacac atattaacat gataattata 180
gctaaagtgg tactcttttt taatagcagt gcatcctaga gagtaaaata tgatggttct 240
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cacacatttt catttgtata tctgtcagaa gctgatagat ttactatact attctgtttt 420
ggaataataa aaattgcagg cataattaaa taaccaaata gttatcccca atgagagagt 480
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atgctcacaa tagtgttttc aggttttata gaattagttg tctttaataa ccaatcatag 660
gctgagcatg gtggttcatg cctgtaatca cagcactttg ggaggctgaa gtgggaggat 720
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<210> 2050
<211> 2006
<212> DNA
<213> Homo sapiens

<400> 2050
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ctaaaaaaaa aaaaaaaaaa ctcgag 2006

<210> 2051
<211> 1242
<212> DNA
<213> Homo sapiens

<400> 2051
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<210> 2052
<211> 1467
<212> DNA
<213> Homo sapiens

<400> 2052
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accaagcata tatccacagt agacctcctt tctttcatgg aaatgcacag cttatataaa 360
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caggagctgc cagataacct gatcctagag tgaaactcac tttggcattc agattttgtc 540
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caaaaaaaaa aaaaaaaaaa aaaaaaa 1467

<210> 2053
<211> 851
<212> DNA
<213> Homo sapiens

<400> 2053
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tgtgatattt gtaatattaa catgagtata agattactga tttaaatctg atattaaaat 540
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<210> 2054
<211> 1266
<212> DNA
<213> Homo sapiens

<220>
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<222> (497)
<223> n equals a,t,g, or c

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<222> (578)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (606)

<223> n equals a,t,g, or c

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<221> SITE
<222> (615)
<223> n equals a,t,g, or c

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<210> 2055
<211> 1623
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1333)
<223> n equals a,t,g, or c

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<210> 2056
<211> 1441
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (357)
<223> n equals a,t,g, or c

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g 1441

<210> 2057
<211> 576
<212> DNA
<213> Homo sapiens

<400> 2057
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<210> 2058
<211> 5048
<212> DNA
<213> Homo sapiens

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<222> (2497)
<223> n equals a,t,g, or c

<220>
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<223> n equals a,t,g, or c

<220>
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<222> (5035)
<223> n equals a,t,g, or c

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<210> 2059
<211> 1134
<212> DNA
<213> Homo sapiens

<220>
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<222> (151)
<223> n equals a,t,g, or c

<220>
<221> SITE

<222> (152)
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<220>
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<222> (441)
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<220>
<221> SITE
<222> (503)
<223> n equals a,t,g, or c

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<212> DNA
<213> Homo sapiens

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<211> 1703
<212> DNA
<213> Homo sapiens

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<210> 2062
<211> 1114
<212> DNA
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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<211> 550
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
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<222> (516)
<223> n equals a,t,g, or c

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tcgttttaca acgtcgtgac tgggaaaacc ctggcgttac ccaacttaat cgccttgcag 480
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aacagttgcg 550

<210> 2067
<211> 812
<212> DNA
<213> Homo sapiens

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caagactcca tctcaaaaaa aaaaaaaaaa aa 812

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<211> 898
<212> DNA
<213> Homo sapiens

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<210> 2069
<211> 899
<212> DNA
<213> Homo sapiens

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<210> 2070
<211> 484
<212> DNA
<213> Homo sapiens

<400> 2070

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<213> Homo sapiens

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Replacement Sheet

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tttcgccagc tggcgtaata gcgaagaggc ccgcaccgat cgcccttccc aacagttgcg 960

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cttataaaat canaaggaat tgacccgaag aataagggtt gaatggttgg tccaagtttt 1140
ggnaccaaga agtccnnctt tttaaaagaa ccgggggacc ttccaaccgt caaaaggggc 1200
cggaaaaaaa ccgnnttatt caaggcccaa anggccccac ttcccgngga acccctttaa 1260
ccccttaatt caaaaggttt ttttnggggg gtccnaaggg ggccccnaaa aggcncttaa 1320
aattnggaac ccccttaaan ggggaagccc cccccaattt taaaancntt tgnaccgggg 1380
gaaaaaaccc c 1391

<210> 2072
<211> 1125
<212> DNA
<213> Homo sapiens

<400> 2072
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agctatggaa cgtggttttt cttgtctttg aacctttatg ggtcaaatgt tattatcagt 180
attattactt ctccagtggc tctgttctca ctctgcctcc aatctcagca gtttctcttc 240
tgtctttacc catctaggta gatggtaaat tccttgcaag tgggtaactc tcttagaaca 300
ccttacaaca tctcacacat agggtgacct gaagttcaga cattctaaag tgtcattgaa 360
gactcaatgt tgacttaata attggtttgt tttcaagaga agaaaagcac cacctccaga 420
atgaaagatg gctgtatttc agagacactc ttaaagtata atgcagcata acaagactat 480
gaattatcag tccatctgtt cacaataact taccctgtgt gttgagatta tcttctgaaa 540
ggtcaccttc aaattatatg aacagaaaga aagaaaaata ctcctaacac aaccaacatg 600
tctcagatgg agactgacaa tggaataatt acttccaata agtagcaaac ttagcatgtg 660
ataataatgg ccaataatac tctaatagtt cttgtcctag tattgtattc caggagcaat 720
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agccaggcgt ggtggcgggc acctgtaatt ccagctactt ggaaagttga aggaagacag 1020
tcacttgaac ccaggaagtg gaggttacag tgagctgaga ttgtgcaact gcactccagc 1080
ctgggtgaca gaatgagact ccatcttaaa aaaaaaaaaa aaaaa 1125

<210> 2073
<211> 366
<212> DNA
<213> Homo sapiens

<400> 2073
ggcacgaggc tgtgtgttca tggtgtgcct gctgcttaga accctgtgcc ctctttgttc 60
aaggggtaaa actggattgg aggtaaacct cagtctcttt ctgtacattg aaggaagaga 120
tcaatgatct tcaaaccaat cattacagat ttccccagtt gaatttgact tagcttttgg 180
atgttgagac tgataaggtg attgaaaacc tggccttaac cacagccaat gatattgaga 240
gttcaaggag aaacacacag ccttttcaag ggtttagaat ccgattggga ttgggaggag 300
gtgtgtatcc acgctacctc atggaagagt gtttctagtt taaaggagac agaaaaaaaa 360
aaaaaa 366

<210> 2074
<211> 1066
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (630)
<223> n equals a,t,g, or c

<400> 2074
ggcacgaggt ttcaccgtgt tagccaggat gatctctatc tcctgacctt gtgatctgcc 60

tgccttggcc tcccaaagtg ctgggattac aggcgtgagc caccgcgccc ggccaagccg 120
catcctttta aattattcat ctgttgaagg atgtttgagg tttttcactt tttggctttt 180
gtaagtaata tggtttggat ctgtggcgcc attcaaatct cacatcaaat tgtaagcctg 240
aatgttgtag gtggggcctg gtgggaggtg actggattat atggttggat tctcatgaat 300
catttaatac cattgccttt ggtactctct ttgccataat gagtgatttc tcctgagatg 360
tcactttctt tctttgtttt tttgatatct catccatcgc agtttaayct acaaatgaaa 420
tttctacaga aacaggaact attttaacaa agaaaaaaat ccctcattca gacttctttg 480
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tttagtaaaa ctyctgataa ycagagttcn aagcacataa caactcaagc ataaatgaag 660
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ccttttttctt actacccaag tctcacttca cagaaatcat taggtaaagg aaaaccaacg 900
aggagttctg cagttttctt ttaataactg aggctgaggc aggagaatcg cttcaaccct 960
ggaggtggag gttgcagtga gccaagattg tgccactgca ttccagcctg agcgatagag 1020
tgagactcca cctcaaaaaa aaaaaaaaaa aaaaaaaaaa actcga 1066

<210> 2075
<211> 605
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (449)
<223> n equals a,t,g, or c

<400> 2075
tcaacatcca gccttagaaa tagctccctt taggtcacca aattaacagg agtttctaaa 60
ggatagcagc ttttttgcaa ctgctgcatc tgttagattc atgttctctt tgctcccttc 120
tccccaagct tctatttcat gatctttttg ttgttttgct ctacttttcc tctttttaaa 180
acctctgcat tggccaccca ggatttaaga ggagcttttc tggaaagctg tctgaaacag 240
gaacaaatta cacagaaaca ctgagagctg tgaacttgtg tgtatacctg acatagtggg 300
agaggggggc ttccttctaa gtaatagaga agagtgaata ttctaatcat tgagtagtgg 360
tcaggcctgt aatcactgct ttttcttttg ctgagctcgg tatcaacgga caagctcaaa 420
aattgtagct atttaaaatt actctccang taaagggttc cygttccttt gatcctatca 480
cagactattc ctttttttct attgaggagg ttcataagat ctcgtgggca agggctgagg 540
agatgactat tgcgtagtgt agttgtttta aattaaaaat ttacctctag ttataggtgc 600
tactt 605

<210> 2076
<211> 3116
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1342)
<223> n equals a,t,g, or c

<400> 2076
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gcctagactt gtgtgttcta aacaggttaa gtagcaggtt gggtttttat gatagtgcaa 120
ggaatgactc atgcctctga gcttctaaac tgaagctgct gtaactaaag gaatctgaaa 180
agaacaaccc tgaagcagag gcctttattg tcttggttgc cagtagtacc ttgtttgcc 240
atgtagcaga caacacacaa aataatgcag ttgtggtgtg ccatgctatg tgcacagccc 300
cttggattac tttgttttaa aaagcatcag agttgggggt actttaggga aacctttgct 360
taccttgttt tgccagtgat aagagcagtg ggttggaggg cacttggcca gttttctgtt 420
cagcttttca gtgaatgtac ccctttaagg ttcagactta aacttcctta aaaagtggcg 480
ttgttcatag aatcgttgga ctcattaatg aatcgttcaa ctccactcac tgaagcccag 540

acctccgtgc ccagggccca atctcgtcag gctgccagag aaagttggtg ctgctcatac 600
tggtctcaca gtctaagtaa gtgtctgtga tgctcccaag caaaggaaat gcaagctctg 660
gaaattcgtt aatgtatttg atgtcttagt gttttagtga ctagggagac cattaactag 720
tttatcatta accacttatc agtgtattga tgttaaagca tttccctgtt agctaaaaga 780
ggcctgttca tacaagccaa ctggtatata cgtgtggttc atccatcatc tgctgcacat 840
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tgagtagctt tcatttactg atcatctgct gtgactgtgg ccctgtctgg aggttcctag 1020
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tttacgttac tggtcccagc atcaaaaccc ttgtttccat ggcctgtttg tatattgtct 3060
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<210> 2077
<211> 1073
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (694)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1050)
<223> n equals a,t,g, or c

<220>
<221> SITE

<222> (1056)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1067)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1072)
<223> n equals a,t,g, or c

<400> 2077
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gcacgagaaa aaacagatga gagcctactc actccaaggg gatggtttta agccactcat 120
gggttttaag ctcccatgat ccaaacacct cccaccaggc cccacctctt aacactaggc 180
tggagtactt gctttctagt gtggtctcat gagattcgga caggggcaca tatccaaacc 240
atgtcacata caattcaaag aattatagca atgtgtaagt aaaaagatct taatcttttg 300
tagtaaaaac agaatgaaga agtataaatg gtgaattttc atcttggagg acaggagcta 360
tataaaaacc catcatgaaa agtctcagct ttgtatctgg gagaaacaca tgatgaaaac 420
gagcttgtta tgtttttttgt tctctkgtag gcctagtcat tcattttgsa tgagttctaa 480
gccctggtta acaatctccc ttggtttctt ctgtagctct tattatacca cactagaaaa 540
gcaagtactc cagcccagtt cccttacttt ctaagtcttt ttccattttc aagccatgtg 600
tgktatgtgc tgattttgga atggtctgga atgctctctt cttaacctca acctctctga 660
gaccttacca atccgcagag tccactggag tctnacctyc aagataactt ccccaacctc 720
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gccacctaaa ccaagcccca gcatccccag catcactcta gtgcttagtt attattcggg 840
gatgaggtga ggggttgcta gatccacatg aaaactctac atgctgtgaa gtgcagtaca 900
gatgtgagag ggcaacactg ttttccttgc attattattt ttgttttacc tgttatgtgt 960
ttgtcctgtc atccccttcc cccacattat gaccctccta gaggtcaaaa gctttatgtt 1020
tcttaaccca tccccaagtg cagaaaaggn aggggnaccg aacccgngtc gna 1073

<210> 2078
<211> 2195
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (2169)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2179)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2187)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2192)
<223> n equals a,t,g, or c

<400> 2078
ggaaaagcca tattgcggat cctcataggg atggtatttg tactaataat cagagatgta 60
atgaaaaaga tcaccattcc tttagcctgc aaaatcttca atataccgtg tgatgatatt 120

cgaaaagcaa gacagcacat ggaagttgaa cttccttatc ggtatattac ctatggaatg 180
gttggtttct ccatcacatt ttttgttcct tacatatttt tctttattgg tatctcttga 240
tggagaagta ttgtttatga taagaaagga gggtatcagt tactgatacc caaaaatata 300
ttccaggtaa agccaggtca gaattaggct tttgcaggaa tttaacttaa ataattattt 360
aagtaaattc ataagagtca gtgcatttta tcattgcaca tccagatact gttttaggtg 420
agctgagcta tttcgttact gagaaaatga taagtatcca tttagaatgt tcatgtaatg 480
tttggagagt tttgtattat ggattcaact tatatataat atatataagg tacataatat 540
gcaattatat atctgatata tattatatat aaaataatat acctaagtgt ttttttaaac 600
tatgggagtg tattataaaa tcaataataa tatgcaaaca gttgtgcctg tgtatttgaa 660
ctacatacag gtatgttgtt attaacagat atatttaaca tttatttact atgggagcca 720
tttcctaatt gaattgcgta attactagac cagaatgcat atgctactat acattgattt 780
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gcatggtaat ttttaccaaa actgaagctg gtaattttaa gtaaagcaac taaatttacc 1860
ctttacttat tagttaaaag gaaaccaagg catgtaggaa aatattggta cgttggaaaa 1920
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cccataattt gggcctatgc tatcctgttg atttttatgt ctagcttaaa aggtatttga 2040
aaatgttcca tttgtgtttt attatttttct gtcctatgac agttctatgc taaatgtatt 2100
ttaaaataaa agccaaattg aagattaaaa aaaaaaaaaa aaaaaaaaaa mcycgagggg 2160
gggcccggna ccaaattcnc ccaaaanggg gnccc 2195

<210> 2079
<211> 1057
<212> DNA
<213> Homo sapiens

<400> 2079
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gtgtcacccg gaagcagagt ttaatgtgac taaagtcaac attggctcac actgtcaggg 120
agtgtgggaa gatgagtaag gactcatcgc agggcgatac ccacagctta aaataggcac 180
cttcccctcc caggtctggt tagggcagtt gttacatatg aggggcgtgg agttttgtct 240
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gaaggaagat cctttatgga aaaaaaaaaa aaaaaaa 1057

<210> 2080
<211> 1626
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1102)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1206)
<223> n equals a,t,g, or c

<400> 2080
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cagataattg tgtaactgca tgaaacatat attaaaatta ggtcagaagt aaagtatggt 120
tggaatttgg gtatgcgtct gccacttgtc tgtgtctcaa gcacttaaaa acatatccta 180
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gggcctgcag tcttttattt ttattttatt attttttttt tgagatggag tctcgcactg 540
tcgcccgggc tggagtgcag tggccacaat cttggctcac tgcaacctcc accttccagg 600
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ctcttttgca tcttaatgtt ggcagtggga aagagttaga ggtggattcc tggacccagt 1500
ctggcctgca ttatttcagc atgtggaata gaggtcacta accggtgtgc cacaggctag 1560
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ctcgag 1626

<210> 2081
<211> 1692
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (23)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (24)
<223> n equals a,t,g, or c

<220>

EFS-Web - 3/5/2009

<221> SITE
<222> (72)
<223> n equals a,t,g, or c

<400> 2081
aaggggcaaa agctggtagc tcnnccgcgg ttcgtcgcgc tctagaacta gtggatcccc 60
cgggactgca gnaattcggc acraggaact cctggattca agcaatcctc tctccttggc 120
ttcccaaagt gctaggatta caggcgtgac tctggcaccc ggcctcagtg tgtgctctta 180
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atctgtaact cacaaaaata atgtattctt ctgaaacagt atacaacgaa tgtttaatta 720
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ctcagacggg gg 1692

<210> 2082
<211> 975
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (813)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (843)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (917)
<223> n equals a,t,g, or c

<400> 2082
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ttcctgtttt tccctccctt cctcaccagg ggagagaaaa aaacggaagg aaagaaagga 180
ggaaatgaat cttaatgagc atctgctgtg tgctaggcac ttttaaaaat acctaaggtc 240
atcagataat ttacacagaa cttgggtggt agtgtgtgaa agactatgca taactgagat 300

gattccatgg cagaaaattc caagccatgg aaaaaccaca tcgtatttat gatggtgcac 360
aaaccgtgat gaagaagagc aagagggagg aaggaaggac agatccccta tcgaatggca 420
atacttgagg attgggggt aaaaccctaa atgaacttgt agattaattc aaagccagac 480
ttactgcttc tatagagaga ctagcacatt gtttatatat cagaaagtcc tgaattaatt 540
tcatgcttaa tgccaaaggg gttgccataa cctttgcctc taagcaaggc tgtctctaaa 600
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cttatatcac ttttactata gggtgttttg tctttatttc tgattttcta ccccccttcaa 720
ccaaagtgtg tttctgcaag cctgttcttt gtggaactaa tggcttttt ttttttttt 780
ttactgaatt ataaatacca tgaggacttt gtntctccca cagttctcat agtaagcttt 840
gcncagggtt tatggcctgt aaatatttgt tgaatgaaca gtggaataaa taaataaata 900
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aaaaaaaaaa aaaaa 975

<210> 2083
<211> 1276
<212> DNA
<213> Homo sapiens

<400> 2083
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tctgcatatt cattcagtga agttgaatga tccagtgggc actctgtatt ccttcataaa 180
ctgtgtggtg aatgtgcgtg tgtgtatgta tgtatatgca cgtgtttatg tgttttctgg 240
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aatcttagaa aatgttgaat ttttagtgat tccagaaatt gatctctatc gatgaaactg 360
ctttctcaaa tacgtcagca atgggattca ggctttgctt acaatgtgaa ggaagttctt 420
agtctcattt gcacaaagaa ggaaggaggg ctaaagataa aaagaactca tagtcttttc 480
catagttttg ggtcatgttc actgtaaaaa aaaatcacaa gatgccattt ttacacagcc 540
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cggtgctgac tacatttact gattgaagca gccaactcca aatataccat cttttagtat 720
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aaaaaaaaaa aaaaaa 1276

<210> 2084
<211> 1212
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (551)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (730)
<223> n equals a,t,g, or c

<400> 2084
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tctacttgag tcaccgattg gcacagccag agctataacc agtctgtgag gattgatttg 180

ccctgacttg tatcttcatg tgtggtctat aaggtctgcc agattggctt atagtcacaa 240
ccagcatgtc ctaagcaaaa tgaaactata tgaacaaaaa tcagctctca tttcactgct 300
agactttggt gttttcttta agaagtagcc ttgttaatgc ttagttttgc cttggggrcc 360
ttaatgtgtc attaactgcc tggaaatacc tttcatttaa aaaagtatac tttagtacct 420
aatgttcaat ttagtatcga tctggatatt ttagcaaatt ttgacttttc aaagacaaag 480
tttctgtctt gtaatgtttc ttgggccggc tatactgcct ttcatctaaa actcactaca 540
gttcactggg nccgtttggt aacagggtaa cckgggcata attaggtgct tgattgacaa 600
gagagttacc agtaccagaa gtcaggttct attttaaccc catcatttcc aattgattgt 660
ttttctctcc accattattc actgtctctc aagtgttagc actctgagtt gttgaacgga 720
ggtttgtatn tgcgcagagc cctgtcgcaa tgccccagca agcttcttgt tggcatgtgg 780
ccactctaaa ttgtgctcca ggatctgcta tgggtccatg cttgcaggag aaacagctgt 840
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agaactgtgc tgtcaagtag aaatagaata taagccacat atgtaattta aacttttcta 1140
ataccacatt aaaaactata aaaggggagg aaatggaaaa ttagtaaaaa aaaaaaaaaa 1200
aaaaaactcg ag 1212

<210> 2085
<211> 575
<212> DNA
<213> Homo sapiens

<400> 2085
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gtttattttt acagaatata tttagtacct ttcttaagga gtaactgaat tgaatcaacc 120
agtttgcatt taaataaaag aacaggctca gtggtcttcc tgtagaatgg tttacatgcc 180
tgcatgtgca gtagttgtgt ctggaatcct agaattggca ctttctgcct ccttgctcta 240
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accagtacag atagatatgt tgtgtttgct tcatttttaa tgatgacttc aagattgatg 360
atgtgatcca ataactgtgg aggtagcttt aacttggttc tgtgtaaata gtatgtattt 420
tattataata tttctcattt taagatgctt ggtttacatt aaattatggt atttaactat 480
ttttatgttt atactaggta gggtctttct tatgtttctg tgtttttggt atgctaaata 540
aagctatttt taaacccaaa aaaaaaaaaa aaaaa 575

<210> 2086
<211> 519
<212> DNA
<213> Homo sapiens

<400> 2086
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tgtttgttgg ccttttctag ggtttcctgt aaatggaatc tcatgtcttc tgcgtctggg 180
tactttgact tagcatagta cttttgaaat tcctccatgt attgcctgtg tcccttctta 240
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tccaccagat gatgaccgtt gggttgtttc cagtttttgg ctgccatgag tcaagttgct 360
ataaacgtga gagtgcaagt ctgtgtgtga atacacattt tcatttctct tgggtgcatg 420
taacagtggg gttgttaggt ccaatggtaa ctgtatgctt aataagaaac tacctgattc 480
gctgagagag agctttaaag gaaaaaaaaa aaaaaaaaa 519

<210> 2087
<211> 1104
<212> DNA
<213> Homo sapiens

<400> 2087
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attttccctt gttctatgaa ttctatgaat tatcttttca ttttcttggt gtctttggaa 120
gcataaaagt ttccaatttt gattttgtcc agtttttcta tttttctttt gttgctcttg 180

ctttagtgt catatctaag aaaccaatgc ctaatccaag gtcataaaga ctatgtctat 240
gttttcttct aagagtttgg taatttagtt cttacattga gatctttgat ccatttcaag 300
ttaattctgt gtatgatgtg aggtaggagt cccttagctt ctgcatatgc acttttccca 360
gcaccattta ttgaaaatac tcttctttcc ccatttaatt accttagcac ccttatcaaa 420
aatcggttag ctatagatat atggtcatat ttctggactc acaattttag tccattgata 480
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ttgcagtgag ccgagatcgc accgctgcac ttcagcctgg tggcagagcg agaccccgtc 1080
tcaaagaaaa aaaaaaaaaa aaaa 1104

<210> 2088
<211> 865
<212> DNA
<213> Homo sapiens

<400> 2088
ggcacgagga aaggctgggg aaactcacca tccattaagc agaatgtttt ttggtccccc 60
tgtttttagc atggtccttc atctccacct ccagctgtgt ctggtgtccg tctgcaagtc 120
caaatccttg gttcaaccat tccaggcaac ctggccaaaa ctaaccaaac acccatgatc 180
tcccgagagg agaaaaggca gctgcctggc cacaggctgg ggaagggaat caggtcatcc 240
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gacgatgtgg atggatcatt tgaggtcagg agtttgagac cagcctggcc aacatggtga 660
caccccacct ctactaaaaa tgcaaaaatt agcgaggcat ggtgatgcgc acctgtagtc 720
cccagctact caggaagctg aggcaggaga atcgcttgaa cccgagaggt ggaggttgca 780
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aaaaaacaaa aaaaaaaaaa aaaaa 865

<210> 2089
<211> 3244
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (343)
<223> n equals a,t,g, or c

<400> 2089
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gatgccatgc ccttcgtagc ctggttttgt ttttgtgtct ttagcaccat tcactttagt 120
attttggcct cccggaaaga aaaccagcct tctagacttg ccagattgaa atgacacagt 180
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acgaagatgc cctggtgctc ctgctcacag aggtgttgaa tcgaatccag ttcagataca 660

accaagccca gctggaggag ttggatgatg agactctgga tgacgatcag cagacggagt 720
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gtag 3244

<210> 2090
<211> 3229
<212> DNA
<213> Homo sapiens

<400> 2090
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attttggcct cccggaaaga aaaccagcct tctagacttg ccagattgaa atgacacagt 180
gatctgccca tcaacttttt atcatttccc ttcactttaa ttgggtcaca acacaaatga 240
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aagttgcttt tctgctatgt ttcaggtggt taatggaatg aagggttgcc tgtcctgtag 360
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cgagtcttac tcccagttcc ctgtggtgga gtttttgaca mttttgttca agtacacatt 480
tcatcagcct actcatgaag gttacttcyc tkgtttggaw atctggacgc tgtttttgga 540
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cgaagatgcc ctggtgctcc tgctcacaga ggtgttgaat cgaatccagt tcagatacaa 660
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<210> 2095
<211> 815
<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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<210> 2097
<211> 1862
<212> DNA
<213> Homo sapiens

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<210> 2098
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<212> DNA

09/529,463

<213> Homo sapiens

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<210> 2099
<211> 1969
<212> DNA
<213> Homo sapiens

<400> 2099

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<210> 2100
<211> 1166
<212> DNA
<213> Homo sapiens

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<210> 2101
<211> 1144
<212> DNA
<213> Homo sapiens

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<211> 1930
<212> DNA

Replacement Sheet

<213> Homo sapiens

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<222> (9)
<223> n equals a,t,g, or c

<220>
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<222> (1922)
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<210> 2103
<211> 1753
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<210> 2105
<211> 1450
<212> DNA
<213> Homo sapiens

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<210> 2106
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<212> DNA
<213> Homo sapiens

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<210> 2107
<211> 1593
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (322)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1131)
<223> n equals a,t,g, or c

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atactatgaa gttatccagc ttatcaagac taacaaaaag cacatccaca gccggagcac 180
tttggaatgt gcctacagga cgcacctggt tgctggtatt ggcttctacc agcatctcct 240
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<210> 2108
<211> 1583
<212> DNA
<213> Homo sapiens

<400> 2108
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aaaaaaaaaa aaaaaaaaaa aaa 1583

<210> 2109
<211> 1434
<212> DNA
<213> Homo sapiens

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<210> 2110
<211> 1710
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1705)
<223> n equals a,t,g, or c

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<210> 2111
<211> 2279
<212> DNA
<213> Homo sapiens

<220>

Application Number

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<223> n equals a,t,g, or c

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<222> (2263)
<223> n equals a,t,g, or c

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<212> DNA
<213> Homo sapiens

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa 708

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<211> 1297
<212> DNA
<213> Homo sapiens

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gcatgcttgt gaaaatgtgt tctcggagtg tgtatgccaa gagtgcaccc atggtaccaa 360
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<211> 1434
<212> DNA
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<210> 2115
<211> 1501
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (796)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (823)
<223> n equals a,t,g, or c

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t 1501

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<211> 4416
<212> DNA
<213> Homo sapiens

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cggcaggcgg attcattcca cttaaaacct gaaaacattg gaccacacaa agtcttactg 180
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<210> 2117
<211> 1287
<212> DNA
<213> Homo sapiens

<220>
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<222> (1287)
<223> n equals a,t,g, or c

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<210> 2118
<211> 1544
<212> DNA
<213> Homo sapiens

EFS-Web 3.0.5.5

<220>
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<222> (1534)
<223> n equals a,t,g, or c

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<210> 2119
<211> 1225
<212> DNA
<213> Homo sapiens

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agctgccgct cgctgccccg ggcaggggca caggcttcat ccagtgaata ctagagggat 180
cgaacagttg caaccaaggc aatgtcttac tacctcagct cagaaaacca cctggaccca 240
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<210> 2120
<211> 1913
<212> DNA
<213> Homo sapiens

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aagtcacatt atacagttat gcattcattt caacaaaata gtgaattgat aatctacttg 1800
ttaatatatt cggcccatat tttgtgtgtt tggacaagta catctccctt ttgcctaatg 1860
aacttttgaa aaataataaa ataatagaat aaattaaaaa aaaaaaaaaa aaa 1913

<210> 2121
<211> 2192
<212> DNA
<213> Homo sapiens

<400> 2121
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ctttctcttt aaaaacaaag tcttatctga gtgttttgat ttcccagtaa ctacaaagtt 180
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agttcaggtt gcagtcagct attctactgc actccagcca gcctgagtga cagagcgaga 2160
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<210> 2122
<211> 1385
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1347)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1353)
<223> n equals a,t,g, or c

<400> 2122
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ggttgcctcg gatgtggaca ccagtgccca gctggagata cagcttgtga acattctctg 180
caccaaggcc ggggtcgatg tgggcagcct atgctggggc tggttctcag tggcggccaa 240
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gctggttgtg cgggcctgtg acctagccac ggaccccggc ttccaggcct acagcaacaa 360
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gaataagact tttgtgatca tccctgaact cgtgctgccc aaccgggagg tggcttctgt 480
ccgggccaga gacgatgatt cagggaacaa tggcgtcatc ctgttctcca tcctccgagt 540
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kccacggggc caagcctgcg tggagangct tanactcgtt ctacctcacg tgctgcccga 1380
gacct 1385

<210> 2123
<211> 556
<212> DNA
<213> Homo sapiens

<400> 2123
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tctgttatat cctatttagc cattttctat tgtctcccaa agaattcaca tcaaaaaaac 120
agctttgaac tccccccttca aaggaaacag tcgactttca taattagcat ctaccattat 180
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agactttaaa aagggagcag tgaaaaggtc ttaataattt attgattgaa ttaagaaata 480
ctagctaatt aagaatctga gtctaaacag cacagatttt ttctttctgc ttttaaattg 540
tggttttaaa aaaaag 556

<210> 2124
<211> 789
<212> DNA
<213> Homo sapiens

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tttattggtg ggttctggcg ctttcaagaa tgtgaagaat gagtggccaa agttaacaaa 120
ggagcatgca cagggatggg ggtcacaccc actttgtaga gtttaagaat agtaagggac 180
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gtaaagataa tgggaggatg aacctccaag cctggaactt tgggagaagc ttctcctctt 300
ggaagtgcca gtagcagaaa agttcccaaa tagaacagat tccttcattc cacctgaatt 360
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tgggagcact acattgatgt gaagttctgg agacaaaaag gaacacaaac agataaaggt 720
agagaagaca aaagggtgaa agagagggct aacgactggg agaaagagag cagaaaaaaa 780
aaaaaaaaa 789

<210> 2125
<211> 1691
<212> DNA
<213> Homo sapiens

<400> 2125
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cttcctcctc ttcttactgc aagggaaata caagatcagt ctggaatggg cttccagatt 120
catacaacct cccccaggac acagattccg agagagagaa gaggaaggca ggtttggagc 180
ctccaccacc accagtttcc ctcacgccct cctctctccc ttcccctctt tctcaacttc 240
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cttagattcc accatcacag gtgggtagat cttggctcac aagcctgtca ttgactagct 420
aagtagccct gattggagga gtcattttat ttccctgagc ctttgtttct catctgcaac 480
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aaaaaaaaaa a 1691

<210> 2126
<211> 2148
<212> DNA
<213> Homo sapiens

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aacatttttt tacccaatgt cttgattatt gtttctttgt agtaagatac agtagggaag 180
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aggattcagt ttgtccattt ctgcaaaaaa ggcagttgga attttaatag gggttgcatt 360
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<210> 2127
<211> 1111

<212> DNA
<213> Homo sapiens

<400> 2127
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aaatgtattt cacggagttt gaaggaacgc ataatcaaga gggaaaacaa tttgtccttc 120
attggacgta ttatttggat ttgggtgagc aacaaaatgg aatgtggtct gttaggagca 180
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aatgaatgca aaatatcact atcattttcc taattacaga ggagcaaagg ttatcttcag 420
ccctttcagt tctatgctca catattcaaa tatcaaatgt aatttagctg aagttattta 480
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<212> DNA
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<211> 1092
<212> DNA
<213> Homo sapiens

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<212> DNA
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<211> 1142
<212> DNA
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<211> 1452
<212> DNA
<213> Homo sapiens

<220>
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<223> n equals a,t,g, or c

<220>
<221> SITE
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<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1415)
<223> n equals a,t,g, or c

<220>
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<222> (1426)
<223> n equals a,t,g, or c

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aatttagata gataagggct acagcatact aaatcgacaa ccaaatttgt catgtgacta 180
aaccgttact tcagatgaag cttacattac tgttttctgc ttgtgtattt tctgtagagt 240
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ggttcttttt tccacctttt tggtcagtaa aacttaatga aaaaagcaaa gaaaaaaata 360
ttctgaacaa agctataggg ttttaagttc agcctcccaa cttagtcatc ctaacatgat 420
tattttgtga tttggggtgc ttgccctggt gctgttccag tccatgtgca tcctgagctg 480
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agaagccagc tacagagcct ctggaacact atggtcttac aagcagtact aaaatcaacc 660
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tttgtgtgct atcggtagct gtgtttcttt gatcagatgt tcctgtcctt ttgcccttct 1260
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ggacggggtc tt 1452

<210> 2138

EFS Web 2.2.5

<211> 1452
<212> DNA
<213> Homo sapiens

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<220>
<221> SITE
<222> (1399)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1415)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1426)
<223> n equals a,t,g, or c

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aatttagata gataagggct acagcatact aaatcgacaa ccaaatttgt catgtgacta 180
aaccgttact tcagatgaag cttacattac tgttttctgc ttgtgtattt tctgtagagt 240
acttttacac agattggtaa agttcaggtt tcagagaact gcttttgtgc agaaaattta 300
ggttcttttt tccacctttt tggtcagtaa aacttaatga aaaaagcaaa gaaaaaaata 360
ttctgaacaa agctataggg ttttaagttc agcctcccaa cttagtcatc ctaacatgat 420
tattttgtga tttggggtgc ttgccctggt gctgttccag tccatgtgca tcctgagctg 480
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agtgaggaaa aatgtgcttt tggccatgtc tcaaagacag gaccaacttc agattcccaa 600
agaagccagc tacagagcct ctggaacact atggtcttac aagcagtact aaaatcaacc 660
ctcagcctct tcaatgccaa aggtatccct attggttgag aaccacatgg taatttttaa 720
tgggactttt atcagcaaat ggagttacag gaattctctg taatgagtga ttctgaagag 780
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aacaactttc tccttattga caatcccata ataaaactca ggaaccaagg caaaatgaat 960
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tttgtgtgct atcggtagct gtgtttcttt gatcagatgt tcctgtcctt ttgcccttct 1260
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ggacggggtc tt 1452

<210> 2139
<211> 1452
<212> DNA
<213> Homo sapiens

<220>
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<223> n equals a,t,g, or c

PCT/US2005/045959

<220>
<221> SITE
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<223> n equals a,t,g, or c

<220>
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<222> (1415)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1426)
<223> n equals a,t,g, or c

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aatttagata gataagggct acagcatact aaatcgacaa ccaaatttgt catgtgacta 180
aaccgttact tcagatgaag cttacattac tgttttctgc ttgtgtattt tctgtagagt 240
acttttacac agattggtaa agttcaggtt tcagagaact gcttttgtgc agaaaattta 300
ggttcttttt tccacctttt tggtcagtaa aacttaatga aaaaagcaaa gaaaaaaata 360
ttctgaacaa agctataggg ttttaagttc agcctcccaa cttagtcatc ctaacatgat 420
tattttgtga tttggggtgc ttgccctggt gctgttccag tccatgtgca tcctgagctg 480
tgtgatctgc ctcgaggcta tgatctgagc aagcaggaga taacattttc ttctgcatca 540
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agaagccagc tacagagcct ctggaacact atggtcttac aagcagtact aaaatcaacc 660
ctcagcctct tcaatgccaa aggtatccct attggttgag aaccacatgg taatttttaa 720
tgggactttt atcagcaaat ggagttacag gaattctctg taatgagtga ttctgaagag 780
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tgtgtaatac acacacacac aacccccctat acctggaaga ttgtcagcat gtaaatcagg 900
aacaactttc tccttattga caatcccata ataaaactca ggaaccaagg caaaatgaat 960
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aactttattg aataagcaag aagtgcatcc taatcctttg attattaatg aggttgaata 1200
tttgtgtgct atcggtagct gtgtttcttt gatcagatgt tcctgtcctt ttgcccttct 1260
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<212> DNA
<213> Homo sapiens

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<220>
<221> SITE
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<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1415)
<223> n equals a,t,g, or c

PCT/US99/30390

<220>
<221> SITE
<222> (1426)
<223> n equals a,t,g, or c

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aatttagata gataagggct acagcatact aaatcgacaa ccaaatttgt catgtgacta 180
aaccgttact tcagatgaag cttacattac tgttttctgc ttgtgtattt tctgtagagt 240
acttttacac agattggtaa agttcaggtt tcagagaact gcttttgtgc agaaaattta 300
ggttcttttt tccacctttt tggtcagtaa aacttaatga aaaaagcaaa gaaaaaaata 360
ttctgaacaa agctataggg ttttaagttc agcctcccaa cttagtcatc ctaacatgat 420
tattttgtga tttggggtgc ttgccctggt gctgttccag tccatgtgca tcctgagctg 480
tgtgatctgc ctcgaggcta tgatctgagc aagcaggaga taacattttc ttctgcatca 540
agtgaggaaa aatgtgcttt tggccatgtc tcaaagacag gaccaacttc agattcccaa 600
agaagccagc tacagagcct ctggaacact atggtcttac aagcagtact aaaatcaacc 660
ctcagcctct tcaatgccaa aggtatccct attggttgag aaccacatgg taatttttaa 720
tgggactttt atcagcaaat ggagttacag gaattctctg taatgagtga ttctgaagag 780
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aacaactttc tccttattga caatcccata ataaaactca ggaaccaagg caaaatgaat 960
tggcttctag gggtctgaac cttactgccc atacaagtgt tgattcattt taatgctgtt 1020
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tttgtgtgct atcggtagct gtgtttcttt gatcagatgt tcctgtcctt ttgcccttct 1260
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ggacggggtc tt 1452

<210> 2141
<211> 1195
<212> DNA
<213> Homo sapiens

<400> 2141
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gaggcatgta tagcttggct tccataatgc agataaaaaa atatttttcc ctaagtgttt 120
tccttgcctt agtgtcttct tgctgtttct gcctggactt ggagagatta caactatcga 180
attgagaata ccagaagcaa cacaagttgt aacttagaga cacagagctt acgtggctgc 240
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gtcacttcta gaggtgtgat cttaggcaat ttgctcaacc tctctatgct tcggtttcct 360
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aaagaatcta tgtggagtgc attgcatagg accagctcca caatgctcta tatttcatta 480
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ttccaggact taggtccatg gctctcaacc ctaaagagca tttataaaac tactaaggcc 600
ttagccttac ctcagaccag ttaaattaca attactggag aacagggcct aggcctcaat 660
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ccccctattc cttaatttta aaaatgaaaa atcagagagc taagagtttg gagttctaag 1020
gtaaagtcca aactggggca catactccca cttgggtaaa aagaaggaac caacctgcaa 1080
atcagaccaa aaccgcagat gcgcagctgg gaaactagac acgaactcat catatccaac 1140
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<210> 2142

<211> 542
<212> DNA
<213> Homo sapiens

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gtatattttt gtttcatcaa ctaagatgca ctgtaacatc tctgaaatct ggatatatta 240
tcaatggttt atcatagttt tgttagcaat acactgtctt ttagtggtgc ctaaaataat 300
ggtatagttg tgaggtgatc ttagatttga tgaagcacag tatgcaggta ggcctaatgg 360
gggaagatgg taatataaaa gcaagaagta ttttttttt gtaatgactg aaagctgttc 420
tgtggatgac ctacccttc ctttaaacac gattctctca cttccaactc caaacttgct 480
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aa 542

<210> 2143
<211> 549
<212> DNA
<213> Homo sapiens

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ccctcccctg tccccaacat gccctgtaat aaaattagag aagactaaaa aaaaaaaaaa 540
aaaaaaaaa 549

<210> 2144
<211> 1707
<212> DNA
<213> Homo sapiens

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ttctggtaga accatcccgg ggcgggtgga gggtgggatt taagggagac gggaacacat 720
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ccccagactc cgagtaaagc gggcggtagg gccggagtca cctcccctat ggcagtggcc 1140
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<211> 1159
<212> DNA
<213> Homo sapiens

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gttcatctga tttctggtcc ctccttttctc gacaactata atactaaccc ttttctcagg 180
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cagaggcaat gattcctgtc agtatgaggt cccttagtta ctaaaaaggg acatgattta 1020
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aaaaaaaaaa aaactcgag 1159

<210> 2146
<211> 960
<212> DNA
<213> Homo sapiens

<400> 2146
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caactaattc agagtctgtg aaaatttgcc ttgaaaccca ttaaaatgaa tttattgttt 120
ccaaaaatat taattagaca agctctgaat atgaacaata ccattgaata gcttctaaaa 180
gaatgagtat tttcagatgt tttaaattac cttttgtctt tgaagctttc cttatttttcc 240
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ttataattcc taccatcaca tgctatttca gatagtgact aataaacaca ttacatcact 360
gtaatgtctt tcccatgtag tcctgactgt tcttgataga acagattcac catccagatc 420
ttatctatgc attgatccct caataaagga ataacccaag atgaagttgg cagtgggtat 480
acacacagct atgtcacacc aaacttgaaa tacttttttag aagttttaaa tgctgataaa 540
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tataattcac atgatttatt cacattaacc agctgtgatt ggagaatcag garrarcttt 720
gagtcccata ttttataaat gcttctgaga agtaccatag ttaatgcccc tttcaaataa 780
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caggaggatc ccatgggccc aggagggcaa ggctgcagtg agccatgatc agagcactgc 900
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<210> 2147
<211> 1065
<212> DNA

10/543,950 PCT/US2004/002129

<213> Homo sapiens

<400> 2147
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<212> DNA
<213> Homo sapiens

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caccaagaaa aaaaaaaaa 1879

<210> 2150
<211> 1631
<212> DNA
<213> Homo sapiens

Feb 25, 2009 9:59 AM

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<223> n equals a,t,g, or c

<220>
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<212> DNA
<213> Homo sapiens

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<211> 570
<212> DNA
<213> Homo sapiens

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<212> DNA
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<211> 2957
<212> DNA
<213> Homo sapiens

PCT/US2004/035959

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FOLFOX-E5050

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aaa 2043

<210> 2162
<211> 1484
<212> DNA
<213> Homo sapiens

<400> 2162
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ttttaagtgt atagtttagt agcactaagt atattcacat tgttgtgtaa cagagatcca 660
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<210> 2163
<211> 2865
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1965)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1971)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1999)
<223> n equals a,t,g, or c

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agaaactgtt gctaatttgt tcaccaggcc ttttccctga gaaatataaa ctgttgtcac 180
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aatcaaatgt tggtacgtga tggacggaca tatgcttatt ttaatagttt ttaaaataat 360
caagtattta ctaagtgcca ggcacaagcc taggtgctat gaatacctgt tggtgttcag 420
gaactacatg gtccttggtc ctcgccctca tgaaacttat actcaagtag gaagtagaca 480
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tcatgaactg aatttcagca aggtgattga ctttttaaaa aaaaatcttt ttcagatcag 900
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ggtttagaga tttttccatt ggaaaaaaaa aaaaaaaaaa aaaaa 2865

<210> 2164
<211> 1272
<212> DNA
<213> Homo sapiens

<400> 2164
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tctgcccaat tcccgcacct ctggaaactt cattcacatt tggcacagat gagccactcc 180
tccctccttc cccttgagaa tcgttctctg agcctgtgca gaacaaggtg ctccgatcct 240
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tgcctggcca tccactcaaa tccagcctct ccaaaaggaa tgattctccc ctacttcctt 480
ctcacacaat tgtgtggcca gagtagccgg accaatggct ccaaactacc cccaaatact 540
catccccgcc tcamtgcttg ggccccctg gcttccccta gggcagctca catcaaggtc 600
cagcttggat cggagctcct acaggaagct tccccagccc tgctctgtcg gagaactctt 660

ctcctccata ctamctctcc cattctgtgg caggctcttc tttaycctca ggcttcagyt 720
cagacwtccc tcacctgcta ggccacagca gctcctgagt agctgggatt acaggcaccc 780
gccgctgcta atttttgtat ttttagtaga gatgggggtt tcaccatatt ggtcaggctg 840
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caggcatgag ccaccgctcc cagcctttga ttttttaagg tggattttgg ttgttataaa 960
tggagaaagg taagagttca agttcaaccc gtgtgtgaaa gcaaaacaat ggaaaacagg 1020
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aaaaaaactc ga 1272

<210> 2165
<211> 1529
<212> DNA
<213> Homo sapiens

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gcaagcgtgg ggactggcgg gaaggcggga gcagctgagg ggatcccagt ggacccaaac 180
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tggcaggccc tgagttaatt cactgccatc attgtcctcg tgcttcatag cagtagccgt 540
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ctcctttcaa caaggttttc tatttggtca tcacatctgc attcttccaa gaagcccact 840
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aaaattatta gaaaaaaaaa aaaaaaaaa 1529

<210> 2166
<211> 1314
<212> DNA
<213> Homo sapiens

<400> 2166
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caattcctag tactcatatt actcaaccta tgagcagtat ttgttacagt tccctccttc 180
tttaactttt tccattggtt ttccaggact cagtactctt aatagctttc ctcctaaata 240
tccagtcgtt ctcagtctcc ttttctgctt ccacctcttc tttacaattt ctaagcatta 300
gaatgccccc agggcttagt ccttggactt tatctatgct tactactttg ctgacttcat 360
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cagcctcctc cctgattttg ttggtccaga tattactcct tggatgcctt attagcatct 480
gagatttaac aggttcaaaa tttwagctcc cgatctctgc cctaccctca cctcaattta 540
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caaaactggc agagttatcc tcagcccttc tctttccctc ctgtgcttta tccaaactct 660
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<210> 2167
<211> 2354
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (2180)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2255)
<223> n equals a,t,g, or c

<400> 2167
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ttttaagcca aaaacaaacg aaaggaaagc ggggagggga aaacagaccc tcccactggt 120
gccgttgctg cgttctttca atgctgactg gactgtgttt ttcctatgca gtgtcagctc 180
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aagtccagtg tgactttatc ttctgggtgg tttgatagtg tttttaaaag taatatataa 360
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gaacctcagc caatgctgga agtatgattg aagtncctct cttttgtgac tcttgtacag 2280
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aaaaaaaaaa aaaa 2354

<210> 2168
<211> 744
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (14)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (21)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (706)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (744)
<223> n equals a,t,g, or c

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gaactagtgg atccccccgg gctgcaggaa ttcggcagag cgggtttagt gattatcttt 120
attgatcaga aaaaaaaaat aaactcacat tgttgggata atctaaaaat aacatcatga 180
tattacagca taccatgaag aagttaactc taaaggccta cagtatataa tagtttgagt 240
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aaatactttt gataatacca caaaatttac caaagacata gatattttaa aaacaaggaa 420
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cttcagcaat aaagtagatc aagcaaaata atgaatttct gaacttgaag acaggtcttc 540
tgaaataacc cagtcagaca aacaaaaaaa aaaaaaaaaa actcgagggg gggcccggta 600
cccawttcgc cctatagtga gkcgtattmc aattcactgg ccgkcgtttt wcaamgtcgk 660
gactggggaa aaccctggsg ttacccaact twaatcgcct tgcagnamat yccccttttcg 720
gccagstggg sgtaatagcg gaan 744

<210> 2169
<211> 372
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (368)
<223> n equals a,t,g, or c

<400> 2169
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cacaaaagtg tgctgtgtac actttgtgat tgcctctgaa attcgatgtg gtttattcta 120
gacttgggtg tggtgtaggc agggcctaca tccaaggagc tgattggtca atgaaggcgc 180
ctccctctca ttggtctctg tggctgtcat tctgtcaccc tcctccctgg ctctttgccc 240
tcaataaact ggctcaaaga gccttggaaa agcatttttat tcccagctct tatgcgaact 300
ctgtgtagac cctggacaac taaatctgct ttcccatttg caaaaaaaaa aaaaaacccg 360
gggggggncc cg 372

<210> 2170
<211> 427
<212> DNA
<213> Homo sapiens

<400> 2170
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tacaagatat aatgtaactt gctgttttag catctgtatt ttggttagaa gatattatta 120
aatgcagatg ttaaggattg gaaaagtcta attttatttt tagaaataat ggatataaat 180
ttgtttttgc ttgattaaaa tagcttattc ctacattaag tctcttttta aatgttttca 240
tgttatttct tttgtgcagc tatttcatct gtgtgagtca cagctttgtt tccacgtatt 300
attcagttta tttctgtttc cttacttgtt tacattccgt ggtacctact tacatgctta 360
ggagtcaaat ggattatgac attaggaaaa aagcagaata aaagagattg aagtcttaaa 420
aaaaagg 427

<210> 2171
<211> 304
<212> DNA
<213> Homo sapiens

<400> 2171
cggcacgaga aaacatccaa gcttcttacc tgtagataga atcagccctc agttggtgct 60
tattaccagt tattcaagaa caataacaac aacaaaatta gtagacatcc aagaagcaca 120
tattaggacc aaagatagca tcaactgtat ttgaaggaac tgtagtttgc gcattttatg 180
acatttttat aaagtactgt aattctttca ttgaggggct atgtgatgga gacagactaa 240
ctcattttgt tatttgcatt aaaattattt tgggtctctg ttcaaaaaaa aaaaaaaaaa 300
aaaa 304

<210> 2172
<211> 400
<212> DNA
<213> Homo sapiens

<400> 2172
ggcacgagga aatgagttaa gactttgggg actgtgggaa gggcattgtt gtgttttgaa 60
atgtgaggac atgaaatttg ggagggacca ggggcaaaat gatatggttt ggctgtttcc 120
ccacccaaat ctcatcttga attgtagttc ttagtcccca tgtgtcatgg aagggacctg 180
gtgggaggta attgtaggtg gtttacccca tgctattctt gtgacagtaa gttctcataa 240
gatctgatgg ttttataagg ggcttcccac tttactcagt tctcattctt ctccttccta 300
tcaccatgtg aagatggaca tgtttgcttt cccttctgcc atgattgtaa atttcctgag 360
gccccccag ccctgcagaa ctgtgagtca attaaagcgg 400

<210> 2173
<211> 703
<212> DNA
<213> Homo sapiens

<400> 2173
aattcggcag agggcgattt gtgcatgcct gtgacacctt tctcttcatt cttctgtgcc 60
tctatgattg ttacaccttt tttatttttt ttctttttg agacagcctg ggcaacagag 120
cgagactcca tctcaaaaaa aaaaaaaaaa tatatatata tatagataga tagatagata 180
gatagataga tagatagatc tgtgcttcct tgttcccatg ttttgtacat gctatttctc 240
gcatctgcaa tgtccattct cttcttccat tccccacctt ttcctcactc ccaaatggat 300
aactcacact tgctctttaa gattcaactt acatattatt ttctttgtgc tccagtagct 360

ctttgcattt ctcttatagg aattaccatg ttgtgtcttg tctgtctgtt agtttctctc 420
ataagaatgt aagttcatca aaggaatgga ctgtgtctca ttttagcttt gtttctgagc 480
ccaaagctag aattgtgttt gtttagcaca atgcttggcc acagcaagca tctatgatgt 540
tgtttaaact gactttaatc ctataaatca atgtctcccc tcaaatgtgt cccactagta 600
ccaggagatt tttcaggaaa atgtcctata gtctaataat ttggcaaatc acaaattcta 660
tgtaatagtg tatataggct ctagaaagac tagcaaaaaa aaa 703

<210> 2174
<211> 675
<212> DNA
<213> Homo sapiens

<400> 2174
aattcggcac gaggaaaata tagaaccttt tcatcatcac aggaagcttt catggacagt 60
gctgctctag agtatatcaa tggcattgga aattcataag ccaagagtgt ctttcaaata 120
tcagctaatt aatgaactaa tatcacgtca gatatcacct ctataacatt twaaaaatac 180
tcattgtgct attatggcta gtgctgcaat gaagatgaaa tcaacctaaa tgcccatcaa 240
tgacagattg gataaagaaa acgcagtacc tatacaccgt ggaatactat gcagccatgt 300
aaaaagaacg agatcatgtc ttttgcagga acaccaatgc tgctattatt ctcagcaaac 360
taatgcagga acagaaaacc aaatactaca tgttctcact tataagtggg agctaaatga 420
taagaacctg tgaacgcaaa gaaggaaaca acagacgctg gggtctattt gagcgtggag 480
aatgggagga gggagaggag cggaaaaggt taactcttgg gtactgggct taacacctgg 540
gtgatgaaat aatgtgtaca acagaccctc aggacatgag tttacctatg taacaactat 600
gtaacaaacc ttcatatgta gcccccaaac ctaaaataaa agttcaaaaa aaaaaaaaaa 660
aaaaaaaaac tcgag 675

<210> 2175
<211> 432
<212> DNA
<213> Homo sapiens

<400> 2175
ggcacgagaa ggtattccat gcaggtgaat tttctaaaaa tactttactg acacaattta 60
aaaacacttt tgatgctcat ctttattaat catattataa ttagcctttt ccccccagaa 120
tatatagagc atagtttaac cctttttaa tgactcagaa ttatcattat gaccagatac 180
tattatcttt agagtctgct aatgttattg gtctttttga ccctgtgcca aatggtccca 240
ggctagcatg ccttctgagt tccttgcttt taagaattgt attcctacca catactcccc 300
ttgccccttg ctctctactt taattttcta tttcagtcaa gtgtatttgt ccctaacagt 360
ttcccttctt attttcccca aatgactatc agctttgaaa tgataagcca gaaaaaaaaa 420
aaaaaaaaaa aa 432

<210> 2176
<211> 794
<212> DNA
<213> Homo sapiens

<400> 2176
gcacgagtcc agccttgcag cccctcatga gtgtggctgc agacatgctg tccggcccct 60
ccctgtgctg ctgacccccc ctcatgggtc ccccagtgtt ccgtccccat ccctgagtta 120
cggagccgcc tgccgatgcc ccgcccatcc ctgactttgg gtctcctgct ccccagccag 180
cacctctgcg ctaaccacac cctcctacaa catttttta accccaaaat tatagcctga 240
atgttcgctt ttagtctggc caggggatct gactcctgag ttggttgctc tcccctgctc 300
actccagtca catagagaat tggtgtttcc cgcagtgggg atgcagctgt tggacaggta 360
ttgggggcaa ggttggtagg gaggacagac tgtcacttgc tgttacaggc acaggtgatt 420
aaaatgctaa atattgcaaa tttaagcttt gtcagtatat ggaaaagttg aagggaaaat 480
actggaatgc ttcttcaaag gttaaaaaat aaccgagtct tttggtaatt tgaccccacg 540
tgctctctgg ccctcaagca tgtaacctcg gggtctgagg cccaggaccc acccccctgc 600
caccctctcc accccactcc ctgctcagta cctggcgttg gtacacaggc aaggattggc 660
acaaccaaaa ttggcctttt tctccctctt aatattgaag aaattcccac atttctcatt 720
tggtaatggt gttgtggcct cagatttctt ctagtatttg cttctgatga atgattatgg 780
tctatacata aaaa 794

<210> 2177
<211> 425
<212> DNA
<213> Homo sapiens

<400> 2177
gaattcggca cgagagaagg gaaggcaagg ggctgagggg agggaaacag ggatgcattt 60
ctgttttctg gtatcattat acattattta aaatttatgc atattttgga aaactagttg 120
acctgacaag aataagacag tctaaacttg tagagttaaa cagtccctcc atggtgagat 180
tttagactga ttcagagttg tgttaaccta atgactgaca cactttattg tggattgtag 240
taaataacaa caaagctagg ttttatgatg cttttctcct actaaatgtg tgtcacagcc 300
atttacaaac ccatttggtg caattcttat ccttgaggtt tatttatttg ctttttaaaa 360
tatattgcat tgtcttattt taaaaaaata gtcaacagaa ataattgcaa ggaattgtgg 420
aaaag 425

<210> 2178
<211> 1489
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (240)
<223> n equals a,t,g, or c

<400> 2178
gtaaagattt aaattatttg aagcatagag attttttttt atgttttgtt ttctaattgt 60
catggtaggt catgtcatac taaatacaag ataggctata gagttttaat ttactgtcat 120
tgaacaattt gcattgttta ggaggtacta ggatgatcaa ctgattgaaa aattcatcag 180
tgtgttaatg aatttttttca ccccttttaga tatatgctga aaacatttag catgagttgn 240
attttaatac caatttttca atatttttttc aaattgagac ataaaaacta aggcatttta 300
aatatctgtg ctctaataaa aatattttag aaatattcat tgatgctgct ttttacacag 360
gagaacacaa agttatacct caatttactt gaaatggaat atagtggtga cctcaaacaa 420
aatgaagaaa atatcckaaa ttgttttgac aaagctgtac atggttcatt acctattaaa 480
atgagaatta cattttctca gagaaaagtg gaatttcttg aagattttgg ttccgatgtt 540
aataagcttc tgaatgctta tgatgaacat caaacactcc tgaaagaaca ggattcttta 600
aaaaggaaag cagaaaatgg atcagaagaa ccagaggaaa agaaagcaca tacagaagat 660
acaacttcat catctacaca gatgattgat ggtgatttac aggcaaacca agctgtatat 720
aattatagtg cgtggtatca atacaattat cagaatcctt ggaattatgg acaatattat 780
cctccccctc caacctgatg ggaaaaatgt aaatttcaaa tgcagtgtgt gaaaagtatg 840
aaattattat ttttttttaat gagggatgta aacagtataa gcttgttgta tttgataacc 900
tgtcttcctt gtttctgtgt aacatgattt gtttagtaat agggggaaaa tgtcaattag 960
tagcttacca cagatactgt ttcctaccat ttataaaatt tacttttttat tgaaaaacta 1020
ttttttgatt tttgcattaa gtggtctaga attcttttgc aatgcatttg caacagaatt 1080
ttgtagcctt aaggggtagg aagaaaaacc tgactgcaaa tcatgtcagt gtagtacaaa 1140
attctgaaaa cacataaggg ctggttattt acctcctttt ttttttttttt ttttaaagaa 1200
aaaaggactt ttaacctttg ctgacaaggt tttgtctgtt tcagttatac ttgtgaattg 1260
tgatctaact gcagaaagga tacattatta aaatactttg ccttggaata gattataaat 1320
gagaaaatgg aatgtttgca tccctttaaa aatgaaaatc atatcaaaag tatgttgttt 1380
caggagactt tgtatttaga atattcatgt aaaacttgtg aacaagcttt cattttgatc 1440
aaactgatct tcatttttgt aataaaacgg aagactcatc caaaaaaaa 1489

<210> 2179
<211> 323
<212> DNA
<213> Homo sapiens

<400> 2179
gaattcggca cgagctgcct ctggcctctg tgtttaacca tttgcggaac tgccaaactg 60
ttttccaatt tggtggcacc attcattgta gattcccacc agcaatgccc cagggttctc 120

atctctccat ctcctcgtta gcacttgtaa ttgtctacct ttgattatag ccaccctagt 180
gaatgtggaa tggcttctca tggtggtttt gatttgcatt tccctggtgt ttagcatctt 240
ttcacgtgct tcttggccat ttgtatatct tctttttttt ggagaaatgt ctattaaaat 300
cctttgccca tttttaaaaa aaa 323

<210> 2180
<211> 674
<212> DNA
<213> Homo sapiens

<400> 2180
ggcagagcgg cacgagaaat tttatatgga gttaacatgg gaaaccttat gatggaattt 60
aaagattatc taatgtagag tataaataag atggttgaaa gtgtgaaatt gtaatcagac 120
tgtttatatg ctaaagttta tcctgtttct taaactgcgt aatgtaggta acctttttctc 180
ttacatttaa tgaagtagaa tacacctttt aggagcaatt aaatactgaa atggttaatt 240
tgtgtttaga agtgtgattt tctttttttac ttagagttca ttttgccttg tatagaagta 300
cagtttttaa aaactcaaaa tgacctagag gaagtttcat ttttaggggc ggtggaggtc 360
ttaatcagaa ttagttccgc agttaaatag caaacagtaa gttgtgagta gtcaaggatg 420
ggatgataag agcagtattt tttgcaactt aaaatgaaca ttttcttaaa ttatcagcaa 480
ggcttatttg accaaagatg aggtaggatt aaggtgattt atatttacct ttttaaactt 540
ttctgtattt ttttattttc aaattttcca taaaaatata aggacttgaa gatcaagaaa 600
aaatttctgc tttggctcac aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 660
aaaaaaaact cgag 674

<210> 2181
<211> 650
<212> DNA
<213> Homo sapiens

<400> 2181
ggcacgagct gctgtggggc caagcgcatc atgaaggaag ctttccgctg ggccctcttc 60
agcatgcagg ccacaggcca cgtactgctt ggcacctcct gttacctgca gcagctcctc 120
gatgctacgg aggaagggca gccccccaag ggcaaggcct catcccttat cccgacctgt 180
ctgaagatac tgcagtgaaa gcccaagtcc ttggaagctt tccccagtga aggactgact 240
gggggcctca cgcttaactg gtagtgccca caagcctggc agctgtagag ccgcgaacct 300
ccccacacct ccctcaccgc gcaggaccct gagtgaggag gaggagctgg aaacctgggg 360
tgggttggcc aaaggagaac ctcaagctcc tggcctgatc cagctccttc ctgcccaagg 420
cagcttagcc catccagact ggtcctgaag tctgtccctc cattggcatg aagtctgccc 480
cttagcaatc cggcctcgca ggctgtactt tcatggtgct ctctaccttc tggcccccat 540
cccggaacat tcctgagtga attcgcaagc gcactagcat gtgatattag ggagtttgca 600
ataaattatt gaggctgaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 650

<210> 2182
<211> 757
<212> DNA
<213> Homo sapiens

<400> 2182
gggctgcagg aattcggcac gagctcttgt gtgctggtag agattttaat cctgattttt 60
ccataaaaca tgagtattaa gaaataattc ctggtttgga gaaactggag aaatcaccct 120
tttaaggaag aaacactgga aatttctgct aacaccaaga tatttaagag tgtacatagt 180
aggtgctcaa caaatttatt gaatgaatga gtgaatggaa aaactgggag agtcaaaagt 240
gagcagaagc tctccatttc tacttctgtc acaaaccaca ttaaattgta aataaggccc 300
ttctccactt gacttcaggc agcagattgt ctagaagcct aaggacagca atttctctga 360
caagacaaag tagatatttt ataccagggg ttggcaaact actgcccacg ggccgaattt 420
ggcccagtct gtttttgtat ggtgcaaact aaaaatgatt tttacatttt taaagagtta 480
taaaagaaaa aaatatgtgg tctgtgaaat ctaaaatatt tactacctgg cctgttggag 540
gaaaggtttg ccaatctctg ttttatacca ttaactatga gattaacaaa aacttttacc 600
tttgtgcaga aggttaaaaa aaaaaaaaca tggttaagga aaaggagaca tgttacctct 660
tcatacactc ctataactgt ggcattgcaa aaaataaaaa taaccacctt taaaaaaata 720
aatcttattt aaattgcaaa aaaaaaaaaa aaaaact 757

<210> 2183
<211> 818
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (6)
<223> n equals a,t,g, or c

<400> 2183
gntccnagct ccccgcggtg gcggccgctc tagaactagt ggatccccg ggctgcagga 60
attcggcacg agcacaaagg taatttcaaa gctaaaatca taagtaggaa aggcattgcc 120
aataagacag atgttctctt tggaagtcct ctttcttttt gctgggtagc atctgagact 180
tcttcaacct tacaaaatga tgaaaaatta aagaagataa tagcatttgt agttttcatg 240
aatactgaaa tcacacattc atgtacaaga aaaaattgtg catggcaaca cacgtccata 300
ctcaaggctg cacatacata ataaaaaata caagcgcatt gtttttttctt acattttata 360
aacacatgct catttgattg attgtgtaga taaagtagca ttgttctatc atctttccct 420
caagctttta gatataattc ttttggagc cttattgtgt gacatgtgaa tggagaattt 480
gatatttaat atttgktctt ttgaatcatg tccaggggct gggtagggtg gttcatgcct 540
ataatcccaa cagtttggga agctgggcag agaggatcat gagcccagga gtccaagacc 600
agcctaggca atatagcaag gccttgtctc tactaaaaaa taaaaataaa aaatttagcc 660
aggcattgtg atgcacacgt atagtaccag ctaccgagga ggccgaggag ggaggactgc 720
ttgatcccag gaattctaga ttatagtggg ctatgatcat tccactgctc tccagcctgg 780
gtaatgaaca agaccctgtt tcaaaaaaaa aaaaaaaa 818

<210> 2184
<211> 821
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (40)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (816)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (819)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (820)
<223> n equals a,t,g, or c

<400> 2184
tgttgtgtga aattgtaacc ggataccatt ttcccccagn aaccagctat gcccatgatt 60
acgccaagct cgaaattacc cctcactaaa gggaccaaaa gctgragctc caccgcggtg 120
gcggccgctc tagaactagt ggatccccg ggctgcagga attcggcacg aggggaaact 180

cactggtagg aatccataaa ctgtcctcct ggtgggctgt aaacaactca ccctctatgc 240
atctcacatc aaaattccag tttcttggga aaacaagtct gtttgcccaa tttgggtcat 300
atttccacct ccatgttact caggcatgat tcatctgcaa gttatgtgta tagatatttt 360
gctactgttc cacccttacg ctgtgctggg gagggaggtg tcactgtgag ctgtgtcggt 420
gccttaagag atatctgttg tgtcttatta cttggttgct tttccccaca tgtacaatga 480
caaaaatgcc ttcaacctat ttgatccagc cgttccagta caactcctat acttgccatc 540
tttccaagcc caaaggtaca tccagctgat ggaaggagca tcttggtgtt aatattcttt 600
tagtcatggt ctctgaaagt aaaatgtcta ttcttctaat tctggcacaa tcttatctag 660
ctatagttcc tcatggtcct gcactccatg gactaaattg taagtataat tactaccaat 720
gtactctata aataactttt ggggccaggg tggcaatagt tgctagagaa aaaaaaaaaa 780
aaaaaactcg agggggggcc cggtacccag tgcganccnn t 821

<210> 2185
<211> 735
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (16)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (22)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (710)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (711)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (734)
<223> n equals a,t,g, or c

<400> 2185
acnnaatggc acatcnccct tnctattggg aacacaagct gagctccacc gcggtggcgg 60
ccgctctaga actagtggat cccccgggct gcaggaattc ggcacgagca agggttccct 120
tttctccaca tgcttcccag catttgttat tgccttttg ctataagcca ttttaactgg 180
ggtgagatga tacattgtag ttttgatttg catttctctg atgatcagtg atgttgagga 240
ccttttcata tgcctgtttg ccatttgtat gtcttctttt gaaaaatgtc tattcaaata 300
ttttgcccag ttttaaatca gattaaggtt tttcctatag agttgtttga gctctttgta 360
tattctggtt attaatccct tgtcagatga gtagtttaca aatatttttct cccattctgt 420
ggcttgtttc ttcactttgt tgattgtttc ctttgcagtg cagaaacttt ttaacttgat 480

gagatcccat ttgtccattt ttgctttagt tgcctgtgct tgtggggtat tactcaagaa 540
atttttgccc agactgatgt cctggagagt ttccccaata ttttcttgta gtagtttcat 600
agttcaaggt cttagattta aggctttaat ccattttaat tatatttaaa aaaatttaaa 660
aaaaaaaaaa aaaaaactcg agggggggcc cggtacccaa ttcggggatn ncccgttccg 720
tccccccccc ccgna 735

<210> 2186
<211> 1372
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (386)
<223> n equals a,t,g, or c

<400> 2186
tcgacccacg cgtccggcaa ttctttcctg aggtccaggg tgttgcaaac tcatggcctt 60
gggccacgtt ttaccttcag tgaggttttg tttggcttgc aatgagtaca tgggttttag 120
gttgaatgtg agagtctgca gacaatgtgg gttctccgac tgccctccca gtgaaggtgg 180
acctctgatt tagaccggcc cgctgggccc gtgcctacat ccttttcctc agcgtcagga 240
tcttagtccc catgattgct gcccctttgt ggtctgcatg tttcttggta agggtgccca 300
gtcwagtgtc tctgggagcc ccctcttctc tgtcatcgtc argctcccca cttgcagtgg 360
ccgtggtggc tgcacatgct cccggnatac ccctccagca ctccctttg tcatcttgag 420
tttcagtccg tgacttgggt ggcaccctat cttctccatc agggatggta gctatttttc 480
tgccatgaga ctagaggttg cttgagaaca ggaaattgga tctctccctt caggctggga 540
tttcactaag ggytggagaa kgggggaata tgggaggatt atctcctatc acagggagcg 600
ctctgagggc aaggctgygt ctccgattca gactgacggt tccctgagga tggggctgtt 660
tctcccctcc gactggggct ccctgaggat ggggctgttt ctcccctccg actggggctc 720
cctgaggaca gggctgtgtc tcccctcagc ctggggctcc ctgagtcagg gctgtgtctc 780
ccctcagact ggggctccct gaggacgggg ctgtgtctgc ctcagactgg gaatccctga 840
agatggggcc gtktctccct caaagtgggg ctccytcagg acagcgttgt ktctcccctc 900
agactgcggc tccctgagga cggggctgtg tctccctcag actggggctc cctgaagaaa 960
gggctgcttc tccctcagac tggagctccc tgaagatggg gctgtgtccc cytcagactg 1020
gggctgcctg aggatgaggc tgcatctccc ttcagactgg agctccctga gggcagggct 1080
gtctcccccc ttcagactgg ggcctccccc aaaggacagg gactgtgtct cccctgggac 1140
taggttcttt gtgtcttctg catcagacag attcccatga ggacagggct gtctcccccc 1200
ccatctggag ctccctgaag gcaatggcct ctcccctcaa atgggacatt tgcaccccac 1260
cccaccctct ggctccccat ggcgcccagg cattcctccc aggacaccat ttgtcacgct 1320
ttgatgaatg aaacttacta agaataaaaa aaaaaaaaaa aaaagggcgg cc 1372

<210> 2187
<211> 580
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> n equals a,t,g, or c

<400> 2187
ggntcgaccc acgcgtccgg acatttgtct tcatgaagca gatttgcact ggaaccattg 60
ctttactctg gttggaaatg ccattgtttt ggggacagac ttttaaaatg cccttgtgtc 120
tcccagtgag gagccctaag cattgacttc tctaccctaa aactgtttga gagagggaga 180
gtgggccctg gctttctcaa gcatgggtcg ggggttcagc ggggcctctg tcttttgtgg 240
tgacccctca ggggtttcat tgtttccttc tgacttaagc aatagagaga gaatttgttt 300
tggtactctt cagaggaatt gtgctttggc tcataacttg gccatgttct ccatgaatta 360
gttctcctat ttttttttt aactacctta aacttaaggg aaaagttctc ctatcttgat 420
ttcactggaa tataggcttt aggagctctg taaggctggt atttttgtct gttttatctt 480
ctactgtatc gccagtgcct ggaacagtgt ctggtgcaca taataggtgc tcaataaaaa 540

tgtgttcaat ggaaaaaaaa aaaaaaaaaa gggcggccgc 580

<210> 2188
<211> 2120
<212> DNA
<213> Homo sapiens

<400> 2188
ccacgcgtcc gagaaagtcc aggcaggaac ctggttgtat atgggaagga actgatccaa 60
gttgggagtt taaaatccaa ggaaccagct cagatctgag acttgtgaac taaccttcgg 120
ggctaacagg ccagcaggtc agccaggatg gtgagggtga ctttgctccc aggcagtttt 180
ccactccacc ctcaggctgg aggttgtttt aaatatttta tgtgagggaa gaaagggaag 240
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<210> 2189
<211> 1467
<212> DNA
<213> Homo sapiens

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<210> 2190
<211> 1917
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1862)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1892)
<223> n equals a,t,g, or c

<400> 2190
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ttcaaaatac tacatayaag tttgtattat cataaataat ccaraagaaa acatacatgt 1800
aaccaccacc atctggaaat ttcacactaa attataaaac attccatcac tgcatgtatt 1860
gntaatgtcg cttatgaatc cacttcttcc tnatctgtag agttaaaaac tacttag 1917

<210> 2191
<211> 1164
<212> DNA
<213> Homo sapiens

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gtaatattta aaaaaaaaaa aaaa 1164

<210> 2192
<211> 1180
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (25)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (35)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (40)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1174)
<223> n equals a,t,g, or c

<400> 2192
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agctggrcgc ctgcaggtcc cgggtccgga attcccgggg tcgaccccac ggcgtccgat 120
aaaatttagt gaactttgta atgatctatg tgcactttta cttgtaaaat ggaatttctg 180
tatgtttata cttgtaaata tgattgttgt tagtgctcct gttgctcatg gtgtcctgcc 240

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tactgttttg aggggagaaa gaacgtgaaa tggtttgtgt attattgaat tttaagcaat 420
attttagaag ctgtgtgact gctttaataa ctttttccca gtgttatttg aatcatacta 480
cccgttatac taaagctgaa tgacaattgt gtgaaagtta ctgccttcat aagatcaagt 540
caccactgtt acacagctga catatagtgt attacctttg cagctagtaa actataaagt 600
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<210> 2193
<211> 2056
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (2038)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2054)
<223> n equals a,t,g, or c

<400> 2193
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aaaaaatagg attcgtgaat ttgagatagt tcataagtct gcaaaaggct gtataaatac 180
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aaaaaaaaaa aaanaa 2056

<210> 2194
<211> 825
<212> DNA
<213> Homo sapiens

<400> 2194
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tggggcactg gcttcaaaca attcagttca gtatcattac ttttaatctc atctttcctt 180
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atgagagatt ttataaggat caactaagaa atggaaggca ggtgaagata taaaacccta 660
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<210> 2195
<211> 3107
<212> DNA
<213> Homo sapiens

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<210> 2196
<211> 939
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (935)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (938)
<223> n equals a,t,g, or c

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cagacttcac cctgtgcaag tgcatgatcg accaggcaca tcaagaagaa cggccaatcc 480
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gtgccgacga gtcggggcag atcttcatct gtagccaaga agagagcatt aaacccaaga 780
acattgtgga gaagattgac tttgacagtg tgtccagcat catggcctcc tcccagtaac 840
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaanggng 939

<210> 2197

<211> 588
<212> DNA
<213> Homo sapiens

<400> 2197
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gcagattgtg ttgggggggct ggttgtttgt gggcgccttt aatattcaaa ggggagaata 120
ctgttctgat tgaggcatta tgcccgctga gttgtgatat tacatccatc atcttgttca 180
aataaatagc gccgtatcta tatgtcggaa tgaataaata aaagtgctgc agcagggagg 240
ttgggctgga aaccagaggc ccacgatgct ctttgctggc tttgaaatgc ccttgcaaag 300
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ccaacccctg caccaaccaa gaatacgttg ccagcagagt tctttattta gttggcattg 420
gtttttattg accctgattg aatttgaaat tgtaaggctg agagaggatt tgcaaaacat 480
ttgaatacat tttgctcacg gtattgtttt gtaacttgga ggaatttatc tttttagcca 540
atcaggttaa ggtcaataaa tttggttttt aaaaaaaaaa aaaaaaaa 588

<210> 2198
<211> 2317
<212> DNA
<213> Homo sapiens

<400> 2198
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ttccaaatgc agtataacct gcgactgagg tcccagatgg tcatgaaaat gcgggaatat 120
ctctgtaatc tgcatgggtt tgtggatata gaaaccccca cattgtttaa gaggacccca 180
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cagagtcctc aacagtttaa gcaacttctg atggttggcg gtttagacag atattttcag 300
gttgcccgat gttatcgaga tgaaggttca agaccagaca gacagcctga gtttactcag 360
attgacatag agatgtcatt tgtagaccag actgggatcc agagtttaat tgagggtttg 420
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agtaagcccc atggaactgt gaaagccata tgtatccctg aaggagcaaa atacttaaaa 660
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cctgtattcc ttaacgccaa tagaaactgg aattctccag ttgctaattt cataatggag 780
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aatcaaatta tgtgtgaaat gtaggaaaat gcttgcccct gtaaactagt gagttgatgg 1860
agcatttgct tcatcatcct catcaagaga atcatataaa ttaagcttta taatgacatt 1920
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tcactgaaat gagagtcaca aatttttctt cagtgtttca gcctgagtaa gttacataaa 2040
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tactttgaaa aactawaaag cattccacaa atatgagatg atggtattat ccatccataa 2220
ataggtagat atatctctat tttatagttt cagattaaac aaaactgata tcaatagtaa 2280
aagtcaaaaa aaaaaaaaaa aaaaaaaaaa actcgag 2317

<210> 2199
<211> 1290
<212> DNA
<213> Homo sapiens

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ccttttgact gctaatgtat gtttctgctt gctgtgcctt gttatggctg ctttttttgt 180
gctaataaag tatgtttggt gttctccttg tatatctgct gttttataca tttgcaacaa 240
tttctcttgt aaatggaatg gtttggggtt tttaaataag cataactaac aacctttcta 300
tagttaatgc agagttaatg aacagtctaa tattgactta tcagaataag ctaactctaa 360
atttaatgct ctacatctta tcagtcataa ttatatatac tgtggaacag tatctgtagt 420
tactgcaaat tactgtacag tttaggttat aacagaaaac tgacagagaa gtaataaacc 480
tattgatttc tctgcttata aatgaaagat tgaaactatc caatgacata ttatagtaaa 540
tgagtatctg taacctccca ctgcatcaga agcaggttaa atgaagtctt gtgaatttgt 600
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tgtagaactt taaccaaaga cttgtccctt ttaaagcaaa atggggattg aagggactta 720
taatttctgt tgtttctaat taaagtccct gaagatcata taccaaagtg tttgagaact 780
tcatccaaac ctactttaaa gcattatgtg caattaagtt gttatgacat aattatattg 840
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catatgttaa atggaaattg ttttaaatgt gtttgagttt atgtaagcat gtatacactg 1140
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gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1290

<210> 2200
<211> 2290
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (2283)
<223> n equals a,t,g, or c

<400> 2200
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aacattgtat gattaggcat aatgttaaaa aaaaaaattt ttttttggta gaaatgcaat 120
caccagtaaa gaggtacgaa aaagctagcc tctctcagag accggggagg cagagtacta 180
ctagaggaag tgaagttctg atggaatcat gcctgtcaaa tgaggtcttg aagcggatgc 240
ccaaataaaa gagtatattt tatctaaatc ttaagtgggt aacattttat gcagtttaaa 300
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ttggtcatga ggcctcttgc cacactccag aaatacgtgt gcggctgctt ttaagaacta 420
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atcttatctg tttcaattcc ttgctcatat cccatataat ctagaactaa atatggtgtg 720
tggccatatt taaacacctg agagtcaagc agttgagact ttgatttgaa gcacctcatc 780
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tctcctccaa taatgtccaa attgtaatgt gccttgcttc aagataaagt gtatttggga 1140
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tagaaaatct tttgaaacca aatggattaa tttatggcta tttataattt gctttgacat 1260
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atgcaaaatg gtttatcgtt caaactgtcc actctgatcc aaccctgtac tgatagtact 2160
tcccagtatg atattgtgat gtttcataca atgcagtgaa cataaccaac ttgttaccta 2220
aataaagaat tgataaaaac agtgtgacat attaaaaaaa agggggggccc ggtacccaat 2280
tcnccctata 2290

<210> 2201
<211> 1934
<212> DNA
<213> Homo sapiens

<400> 2201
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ggcagtcaga gattttatag ggaagactaa gtaaatccag tttccaagaa cctaaactga 180
ttgaggctcc aagagtcaga ccaacaaaag ttttattctg tgttgtttac tggtaagaat 240
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cgatgggggc tttcgttctg taatttaatc ctttgtagat acattatttg tgtgtaattt 420
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ttcaacagat aactgtccat caaatttaaa accactttga tacattttta tttaacagtt 660
ccaataagaa aaaaatctct atttttaatt atatttctcc tttagaaaaa aaatacttca 720
tggtccctct aaaataaatg gccagacctc agtttaggcc cttgtattta tgactctggt 780
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aaatacagat ttttttcttt ccttttttтt ttttttaaag attttatact acatcttgtt 1860
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araaaaaaaa aaaa 1934

<210> 2202

<211> 357
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (22)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (39)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (171)
<223> n equals a,t,g, or c

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agcsttccct tatcctacag aatacgataa tatctgccta tgagaaggat ncctgagaca 180
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ccatcacagt gcaaatctaa ccccttaact ctgtaaaact agattgcaaa gaatattgca 300
tgtaatattt ttcctttgcc tcagaaatgg gtaaacaaaa tttaagaaga aaaaact 357

<210> 2203
<211> 1469
<212> DNA
<213> Homo sapiens

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tacttcctct ttcctttcca aatgggaatt agaactgtgg ggcagcaaca gtctcagagc 120
cagtgagagg ccagcttaga gaatgcttct gagttagtgg gactctgtgt cacaagtaag 180
caaatgaata tatgaaagaa attatggaga taagttagat tcttggtaat acttaaatgt 240
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agcgtgctat aagttcaaat ctgttgtatt accctaaatt agataaacca acctgaatta 420
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ctttttatac tttttttatt tgtaatttgg tctatctaaa atgttcgtta gcttaactta 540
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aatatcagaa ttacatttat gctctaaatt tgtagttgtc cattgttgtg cttagtaaat 1380
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gatataaaaa aaaaaaaaaa aaaaaaaaa 1469

<210> 2204
<211> 567

<212> DNA
<213> Homo sapiens

<400> 2204
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ttatagattg ttggctttca caatcttata acctaggata caggtagttt cgagtatggt 180
gccagtgatg ttttgttttt gtttggtcaa ggggtaggtg caacccaatg gaccacttat 240
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taaacataag cgaaaccagt agcaagtatg tgggtcagct taaaaatttt gattgttaat 360
gccctatttt ctaatttggc acctcttgat gcctaagcag gtaagcagat gcctaagctg 420
tatttctcca aataaatcaa gatgaagtac tgcccaagtt aaatattgat agcctaaaga 480
caagtttatg tagtacttaa tgtacatgat atgaatgtga agcataaaat taaataaaat 540
ttttccccaa aaaaaaaaaa aaaaaaa 567

<210> 2205
<211> 1679
<212> DNA
<213> Homo sapiens

<400> 2205
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tcttccgcag ccagcactac gccctcctag acaattcctg ccgcgaatac cttttcatct 120
gtgaattttt tgttgtgtct ggcccagctg cacacgacct gttccatgct gtcatgggcc 180
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ttgctgtttt tctctgtatc cacattgttc tccggttccg taacattgca gcaaagaggg 300
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tcagtatcaa ccagacaatt cctaatgaac ggaccatgca attgctggga cagctgcagg 540
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ttgtgtttct gatcaacaac tatgacatga tgctgggtgt gctgatggag cgggctgcag 660
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<210> 2206
<211> 1598
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1508)
<223> n equals a,t,g, or c

<400> 2206

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<210> 2207
<211> 824
<212> DNA
<213> Homo sapiens

<400> 2207
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<210> 2208
<211> 2023
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (486)
<223> n equals a,t,g, or c

<400> 2208
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aaatttttaa attatgggat gttttgttgt tgttgttgtc tttgttgttg gtcatttgtc 180
aatattcagt caccaattct gctcacttct tgccatggat aaaattgggt ctttctggct 240
aattaaaaaa gacaacttta taaaatggca ctttaagcaa gccatagtta gttttattat 300
ttgtaatgca catggcaaag caaagacgtt tgtgatgaag gaactgctca tctaagcaaa 360
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aatgtgtttt aaaggctaat tatcagctca gtaaagcagt gagaaactga tcaaattgca 480
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ggcagccttc ttaaatgaca aatgtaaaaa aaaaaaaaaa aaa 2023

<210> 2209
<211> 942
<212> DNA
<213> Homo sapiens

<400> 2209
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<210> 2210
<211> 884
<212> DNA
<213> Homo sapiens

20020-60056.60

<400> 2210
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<210> 2211
<211> 2637
<212> DNA
<213> Homo sapiens

<400> 2211
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<210> 2212
<211> 1889
<212> DNA
<213> Homo sapiens

<220>
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<222> (1859)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1864)
<223> n equals a,t,g, or c

<400> 2212
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<210> 2213
<211> 785
<212> DNA
<213> Homo sapiens

<400> 2213
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aaaaa 785

<210> 2214
<211> 854
<212> DNA
<213> Homo sapiens

<400> 2214
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cacagagaaa aatgtgaaga aggaggagaa gaggaaggct agaagcctga gcaagtgagg 480
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ggtgatcacc aggggaccta gggagatccc cttcccaccc tctctgttgg cctcagagtc 660
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ggtctggatg agcttgaatt tgaatgaatt gagtttgtat ttctagaacc ctgggttttt 780
acatgtttgg tctttttttg ttttggtttg tcaccctcga taaaggaagt atattcaaaa 840
aaaaaaaaaa aaaa 854

<210> 2215
<211> 753
<212> DNA
<213> Homo sapiens

<400> 2215
ggcacgagct ttttttcaa tctaaatgaa gcttacctta gataaggttc atatttgttt 60
cctatagagt aaataaactt ccccttctta aattgtgtaa taagcaccaa cgtgtggttg 120
cttggcagaa tgagaatgtt aagggagatt gttggatgtt tggagtttca ttatattttt 180
tgtttttatt ttttgatacc taggtgcttt ttaaaatatt cagacaaata tctatcttac 240
attgattaaa cccgtgtaaa ttcatttgca gtatctacat cgaatgtcaa aaaagtatac 300
ttatttttgt tccatactta tgtacaattt tttccctctt caggcttttt catttacctt 360
tttgaaaaag cacttactct ccccttccct atcacccctc ccccaaggtt tctttattta 420
aatttttatt gagagttgtt ggagctctaa gacaatacaa atttagagtt gaacaaaagt 480
ataatctgct ttacaactag tatagaccta aggtcatttg ctttcaatta gaggctccag 540
agtcttcata gtggaaagaa tgctttgtat ttaattgttc ttagttaagt tgtagcacgt 600
gaatacttac ttacatgttt tgtttaaata tacttcttgc atagtttaat tttttaaaag 660
ttgtatctaa taaaatgtct tttaaccatt attacttgac tatatggttg tattaaattt 720
tgtttacgaa aaaaaaaaaa aaaaaaaaaa aaa 753

<210> 2216
<211> 864

<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (251)
<223> n equals a,t,g, or c

<400> 2216
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tattaacttg tggatcagtg agcccccgct gctgggggag tgcaagctga ggccgccatc 120
tgagtgcgtt gaacaggaac acccagagcc ctatattgca agaggtttga actatgcaac 180
ttttttctct tttcttttct ttcccaccct ccctccatcc ctcgcccatt cctccctccc 240
tcccctactc ntcccgcctc cctccctctc tccctccctc ctgattgttt ctgctgcttg 300
gctctgggct gtgggtaaac tccagcactg cagcttcatc tgggagaccc acagctcgtt 360
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tccctccctc cctccttccc tctctccctt tctttctttc tttgttgctt tttttttttct 540
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ttactgcagc ctcaaactcc tgggctcaag tgatcctttc agctcagcct actgagtagc 660
tagtactgca ggtgtgcacc tgtagtctca gctactctag aggctgaggc aagaggatgg 720
cctgaaccta ggagttcgag gcttcagtga gctgactgtg ccagtgcact ccagcctggg 780
cgacaaaaga ccctatctct aaaacaatat ggaagtgtaa gaagttgggg aaataaaagg 840
aaaaagaaaa aaaaaaaaaa aaaa 864

<210> 2217
<211> 1863
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1825)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1836)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1837)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1851)
<223> n equals a,t,g, or c

<400> 2217
ggcacgaggg gcagagtaga gatgaatagt tgggtatggc acaggcggct acctgttgta 60
tcagtgggta tggtttacct cacatagggc acctacacgt gaagaaatgg acaacagaac 120
tgctttgtct gttggcatgg ttgtcttatt ggaggactgc attattggag gactggtttc 180
ctcttcccta ccaggacaat cctccgaagt tctttgagct ttttctactg cctatttttg 240
cagcccaggt cagttgatca ggaggtgtgg ccttgtattt ggtccacctt gagtcagatg 300
ccgctctgct tactgagtat ttttatattg gactcaaatc atgatatgga atcatttgta 360
gacagcagac ccaccaaaat tctgctgcgc atgacagcag ggcagatcac ggtgttaact 420
gtaatcatcc tggtagggag agggtattta tatactatag gacagatgga gagtgtgtac 480
tgctttcaga ggtggaattg caggctacct gggaggcaat gaatttccgc aacctctcca 540
aaagcaaaga tagaagacat gcctttctat ctcttcacct ctgatgcatt cagagctaca 600

tcataatgtt gcacaaggtc ccctttaaga gtaggtgtag cctgttagag tccaggcagg 660
gcatatgaac atagaacaag taacttctcc tacactcagt cgaaaggcca caacctccac 720
acagaaggtg aggttcttcc tgagcacaat aatgtagttg ccagatcttc cacatggctg 780
tatcaatggg cttgactctg gagccttaga tttgggcaag aacatttaat catcccttga 840
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ttgtccattt aaggagatca gaggtacata aattactgta tatacaaagc agcatgtaaa 1380
aagtgccatg tgagtgatgc gaacaagaaa gaatataaaa tataaggatt gttttttatt 1440
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tcccagaaga agtgtcactt gagatgtacc tacagggaca ggtagcaatc ttaatcatga 1560
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ctatgcacat agctattttt tatggtatta cttgcaatag caaaagactg agaacaaccc 1740
aaatattatc aatatggggc tagtttaaaa aactatgata catccacata atggaggact 1800
gtgcatcaaa aaaaaaaagg cgagntgggg gcgtanncga gtcgccctga nagtgatcgg 1860
ggg 1863

<210> 2218
<211> 1114
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (56)
<223> n equals a,t,g, or c

<400> 2218
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aaaacattaa tgaagaggcc aataatatga agggaatcat ggatcagttt tctttcgctc 120
cctgtggtgg atttcactta caagaaaatt gaagctggca agaccctgtt ttctctgcaa 180
tttatttaaa accttgcacg catttggata ccttgtgatt tccaagaact acgtgaagat 240
taagctttgc ttactgatac atggcatgta ttcttttcag tcttttgtgt ttgattttgt 300
ttgatttccc tctgcagcac agcgtctctg taaaaggttt ttatgctttc accagccatg 360
tcttaaatac attaaggaca acacatttgg tgttcacact tcttccagta aatgtctgga 420
acttggaaag ccacagagtg gcattaaaac aatgtgtgtt ttctttgagg agcagtgcac 480
attttgcaac cactagggag gaattttctg ctaaagcaaa cccctgttct ctgacttgac 540
aacttggccc cggactgtgg ggccccacct gttgcttacc ttttgaggta awtttgcaaa 600
tgtggttttt ttacttggaa ataactgcac atttatatat aggatattgg actctgctta 660
gcattttcaa gccacatagc atgactgttt tttgaatagg ttggaattga aaaaacaatt 720
atcaaacgtt aagaacaaag acagggataa attgcttaca tttcaacctc tggagattga 780
ggtaactttt tgtgtctggg tcttgtcaac atctaatttt tttccatcca ttctgttaca 840
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agaactatat ctgctggatg agccttgaaa gcagtcttgg cctgttaggg cttacaaagt 960
aaattacaaa gtgatccagt tcaaagtttg cttagttaca acaaagcacc tttaaaaaaa 1020
atacatttta aaaaaacatt ccaagccaat tggaagacat cattgggttc ttactttaag 1080
acatctcatg gaaaaaaaaa aaaaaaaact cgag 1114

<210> 2219
<211> 796
<212> DNA
<213> Homo sapiens

<400> 2219
ggcacgaggt taaatatgca tgtatgcact attggttaat attttctatt ttctaataat 60

ctacaggtgt ctgtagttaa cgttgagtca tagtgggact tgagaagtgg tgcatagcca 120
gtaagctgac ttttcccacc cataaaaata catgtgtttt gttcttgata ctatgtgtgt 180
gcacaacaat gggaaggcca ttgtcagccc cccaggaggg acacaccgcc tgctgttcca 240
tatgaacgat gcttgctgat cctgtgtgtg gtcacgcagc gcagttctac cttcccatcc 300
ctgtgcaggt gactgtcagt tctttaaatt cacttcaagc agaaaaagcc caggacccca 360
gaacagtaac atcacatccc tgtttatata agcctgaagc aagacaagcg tcaggaagaa 420
aatttccact ttacctttt tctattaata aagacctttt aagtaaaatc tctgtagtgc 480
aagttggcat gagcagactt ggtaacttgt ctttaaagga gaggtttaaa ttggaacttt 540
taaaaactag aaaacaacag attgataaat caattttgta ttcgctagat gaagaaggtg 600
ctgtattatt cccagggata ataactctca gaattaatca ggctaaaaag atacatttat 660
aaaaatatta cagttttata tattaagcct aaattcgatg ttttgatgtg taatatggga 720
taaaataaca tactgttcag tgcatgaaat aaaaactaaa taaaaattgt caaaaaaaaa 780
aaaaaaaaaa ctcgag 796

<210> 2220
<211> 1545
<212> DNA
<213> Homo sapiens

<400> 2220
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ctggcaccca cccactggcc ccctgagaag cgggtggcat actgctttga ggtggcagcc 120
cagcgaaccc agatcagcta aagcatgtat ataagagcac gttgtaaact tgaaagagac 180
aaaggcacaa atgtggctgt tgattaattt gactgcttct cgttgctcgt cacctccatg 240
ccaggcactg tgcttgctaa ttgctttatg ggggcattct cttatttatt ccccagccct 300
gggaaatagg agctgtcatt atccttctct ttctgcacaa ggaaaaatta atgccctgag 360
aattgtcata attttcccaa ggctgcccag ctggtggtgt taagccagaa tttgacctcc 420
cagagccagt ttccattagc tgccatgctc tgctgcctct aattcacaga atgcactttc 480
taccctgtgt gccatggaga cctcctatgg aaaaatgatc agccacctta ccttctactg 540
ggtacctgct gtgagtctgc ctatgccaga aggattaagg aggggaggtt acccaagaaa 600
caaagcctac atgccgctta cagcccccgt tggatggttg ctcagtacaa cagtcttgca 660
ttcagcaggt gtttgttcat cacctactat gtgtcaggct ctatgctagg tactggggat 720
acaggagaga atcaagcgta aagtctttgt tctcaaggaa tttgcattct agaaagtaga 780
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gcataggcag ggaaccgagc agcaggtcag agcaggcgag ctgacattct gcagcctgga 1080
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attatttttc agtctttttc aaagatacaa atatttacat agttttaatc atgtaatata 1440
tacaatttaa tgtcctagtg ttttacttaa tagtgtatca tgttttccct gttggtatgt 1500
agcctggata aatgctctta attataaaaa aaaaaaaaaa aaaaa 1545

<210> 2221
<211> 1733
<212> DNA
<213> Homo sapiens

<400> 2221
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tcctttggcc agattgactg gggatgtccg gacagatgcc tgcatgggtg gtgagggcca 120
catctgcaca cgagccagtg gctgcttgca gttcactgct gtgatgccag agtgtgttca 180
aaggtgactc tcctgctctt ctggactctt ctctcaggca agaaaggctg caggctgcct 240
gctatgtgat gcctgagcac aaagccaagg aactgaacta agtctttctg ttaagtcctg 300
agtttgtcat tggcaggttt acttgtggcc agctctctct gcccttgggt gtctgagcag 360
gcagaccaga agaccaggca ctggacctgc atgccaaagg gactggtcat ctcctgagga 420
cctgtaaatg accctgtgga ctgttccgca cgatccggaa cccacttttt attcactccc 480

catgtctttg gccttcctct tctttctctt tccctctgcc atcctgacac tgatagtttg 540
tcatataaat tccccgggtt gtgtttttt ttctagaaaa aaattaaaag ggaaaacaaa 600
accaaaaaaa ccagaaacca cgaataagaa tggaaatgac aatggctgcc tgtcattttt 660
ctgtcacgat tttcctgatt tggtttgttc cctttgtctc agagaagcag gagatgttga 720
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ttcttccttc atacatttga tcacacagcc tacacccagc cccgagtgtg catcacggta 1620
aaagagctga gggctctctt cagggagcag cccatttagg tctcttttgt tgttgttagg 1680
gagaatacac atctttcttg gaaaaaaaaa aaaaaaaaaa ctcgaggggg ggc 1733

<210> 2222
<211> 1417
<212> DNA
<213> Homo sapiens

<400> 2222
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aaaaggatac atttagtgcc tcccacccag ctccactaaa cgggacgcgc ggcctcctca 120
gcctctttcc tcccgctgcc atgcaccctg cagccttccc gcttcctgtg gttgtggccg 180
ctgtgctgtg gggagcggcc ccgacccggg ggctcattcg agcgacctcg gaccacaatg 240
ccagcatgga ctttgcagac cttccagctc tgtttggggc taccttgagc caggagggcc 300
tccaggggtt ccttgtggag gctcacccag acaatgcctg cagccccatt gccccaccac 360
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agggataggg gacattccat cccaagcttc tcccttaccc acacctatcc ttttgagggg 1320
ctttggggtg gggctggggc aagcagaggg actgggtctt cacttcttgg gctaataaaa 1380
ttgtttcttt gtggactaaa aaaaaaaaaa aaaaaaa 1417

<210> 2223
<211> 1389
<212> DNA
<213> Homo sapiens

<400> 2223
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atatatatra aatawatatw ttrgtagata tggggtcttg ctatgttgcc caggctgatc 120

ttgagctcca gggctcaagt aagtgatcct cccacctcag cctcccaaaa tgctgggatt 180
tcaggtttga accaccactg tcatccccat aaataaagtt attggaatac agccatactc 240
attcattcat gtattgtcta tggctgcttt tgctctacaa tagctgggtt gagtacttgg 300
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tgtcaaccta catctatact tattacaatt tcagtaaaaa tacagagttt aagtaatttg 420
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ggcgtgaggt gccattagtc taggcctgca tgttcaggga aggcccaggg gagagcctga 540
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agggaagaat ggggagaata ttggaatcat ttaatagaag tacaaacaca tagactttta 720
acttttgccc attaaatttt ttttaacatt ttatttttctt aaatttttttt taaaaaaata 780
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taaatgtctt taatgtaact tcgggtgtat gagaatttgt aagttgactg tgcagatctc 960
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gatttagttt aacatccttt ccctgctyca acaagggaat gctttattag agtttcctag 1260
aaataatggg actaattagg acctttcata ttacctagtc cagcagtcca acccatgtga 1320
cctccagtaa agttttggca ccaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1380
aaactcgag 1389

<210> 2224
<211> 1988
<212> DNA
<213> Homo sapiens

<400> 2224
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aacatagaac tctgtatgta caaaaaaata aaaaattggt cgggtgtggt ggtgcatgcc 120
tgtggtctca gctgcttggg aggctgaggc atgggaggat ggcttgggct gaggaggtcg 180
aggctgcagt gagccatgat cgtgccacga tactccagcc tgggtgacag agcttgactc 240
tgtttttttt agaagaggac atgacagtca tggtcacgct ccttttcctt ctcaggtatg 300
taactgctct gcgcctgaca cgggcaacat ggagctgctg gtgaggtatg gcaccgaagc 360
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gaccgagccc caggttgcct cttcagatgc caccaacatt gaggcttcca tcagagagga 480
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gtatggactg gaagatgcac caggtgagac ctccaggggc gggtcacccc tgggtgtggg 720
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cacgtctgaa ggtatgatga catttggagt cacatgctcc tgcatttcat ttccatacat 840
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caatggctca cagctataat cccggtactt tgggaggtct aggtaggagg gttgcttgaa 1920

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aaaaaaaa 1988

<210> 2225
<211> 1301
<212> DNA
<213> Homo sapiens

<400> 2225
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tcttcatcgg aaaaatagtg ataacaatgg taatagtaac aactactgca gtcaggatga 180
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<210> 2226
<211> 2192
<212> DNA
<213> Homo sapiens

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<210> 2227
<211> 1152
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (27)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (29)
<223> n equals a,t,g, or c

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aggccagtgt ctcagacctt tgcccttcca gggtcatctc cctccacctg tcacagctga 300
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ttttttttt gg 1152

<210> 2228
<211> 1893
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> n equals a,t,g, or c

#6754.50.6050.50

<400> 2228
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tggccaccag tggccgcttc attgtcatca tcccaaggac agtgatcgat ggcctggatt 120
tgctgaagaa ggaacaccca ggggcccggg atgggattcg gtacctggag gcagagttta 180
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agctgactct ggcccagggg gcaggtgagg aggatccgag tggcatggtg accatcatca 360
caggccttcc actggacaac cccagcgtgc tttcaggccc catgcaggca gccctgcagg 420
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gttgctggca gagactgaga ctaaagcatc acttaataaa ccccccaagc ccaaaaaaaa 1860
aaaaaaaaaa aaaaaaacct gggggggggc ccc 1893

<210> 2229
<211> 2108
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (78)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (219)
<223> n equals a,t,g, or c

<400> 2229
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gagcctgctg cagcagcnca ggcacagttc cgaatggcac aggaggaagc tcgtcggaac 120
aggctcatga gagacatggc tcagctacga cttcagctcg aagtgtctca gctggagggc 180
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gccytctgcc accatctccc ctgtcatccg ccaactggcc accagtggcc gcttcattgt 300
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ccgggatggg attcggtacc tggaggcaga gtttaaaaaa ggaaacaggt acattcgctg 420
ccagaaagag gtgggaaaga gctttgagcg gcataagctg aagaggcagg atgcagatgc 480
ctggactctc tataagatcc tagacagctg caaacagctg actctggccc aggggggcagg 540
tgaggaggat ccgagtggca tggtgaccat catcacaggc cttccactgg acaaccccag 600

cgtgctttca ggccccatgc aggcagccct gcaggccgct gcccacgcca gtgtggacat 660
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ggggcccc 2108

<210> 2230
<211> 2266
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (85)
<223> n equals a,t,g, or c

<400> 2230
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gcctggattt gctgaagaag gaacnctcca ggggcccggg atgggattcg gtacctggag 120
gcagagttta aaaaaggaaa caggtacatt cgctgccaga aagaggtggg aaagagcttt 180
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<210> 2231
<211> 831
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (595)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (602)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (631)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (632)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (644)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (658)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (688)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (718)
<223> n equals a,t,g, or c

<400> 2231
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catgtacatt gccgacctgg gccccggcat tgccccctct gcccctggca ccattccaga 180
actgcccacc ttccacactg aggtagccgg gccactctgc tagagtccat ccgccaagct 240
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caggaggagc aggagcaagt gagagccacg agccaaggtg ggcacttgat gtcggatctc 360
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gagcggaagg ctggcttgag gccacacngc tggggcgggg acttctgtct gcctgtantt 720
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agaaaacggc acaccaatca ataaagaact gagcaaaaaa aaaaaaaaaa a 831

<210> 2232
<211> 972
<212> DNA
<213> Homo sapiens

<400> 2232
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tcaaacaaac aaacaaacaa aaaacaaaca aacaaagcgt catttatcca gcacccctgg 120
ggaaccatgc tacctggtgt tttatggtac ctggcaaggt gcaggtgaag ttgctgctct 180
tgggcattga acccgtcttg tttggggcag ctcaggcccc aggcagggtc cgggttggct 240
ctcgttggtg tggccctggc ccatccagac ctatatttct gccgtcctgc aggtgatcaa 300
tgttgatggg acgaagaggc ggaccctcct ggaggacaag ctcccgcaca ttttcgggtt 360
cacgctgctg ggggacttca tctactggac tgactggcag cgccgcagca tcgagcgggt 420
gcacaaggtc aaggccarcc gggacgtcat cattgaccag ctgcccgacc tgatggggct 480
caaagctgtg aatgtggcca aggtcgtcgg aaccaacccg tgtgcggaca ggaacggggg 540
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ggagctgctg agtgacatga agacctgcat cgtgcctgag gccttcttgg tcttcaccag 660
cagagccgcc atccacagga tctccctcga gaccaataac aacgacgtgg ccatcccgct 720
cacgggcgtc aaggaggcct cagccctgga ctttgatgtg tccaacaacc acatctactg 780
gacagacgtc agcctgaagg tagcgtgggc cagaacgtgc acacaggcag cctttatggg 840
aaaaccttgc ctctgttcct gcctcaaagg cttcagacac ttttcttaaa gcactatcgt 900
atttattgta acgcagttca agctaatcaa atatgagcaa gcctatttaa aaaaaaaaaa 960
aaaaaactcg ag 972

<210> 2233
<211> 1695
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1256)
<223> n equals a,t,g, or c

<400> 2233
gaattcggca cgagcatacg cagaaatggt taaattctga cttggaattc catgggaatt 60
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gctatttgta atgggagtgt tttaagaaat tcataaattt aaaacactcc acacatacaa 240
aactctttct gaaatgtgac atcttaaaat tattttctca aagtgacata aawtaaaaca 300
gcgtaacagc catctctttg taatatgctc tcttatattt aatttttatt aatcttcacc 360
taaatactag ataacatcat gaagagagca aaataaactg gccatctcag tttaaatggc 420
caacagtcat cttttgatgt ttatttcttt gaaacaaaat gcaccctaca ttttattttg 480
gagcaaacag tcatcagaag taatgtgaat ttgtatgttt tgmcaaaaag ttttmcatat 540
atgwtttaaa aggtgtttat gtawtatgaa ttamcttgtg tacaaaagag atmcagattt 600

ttcaaagagc aagcatctga atgttaagaa ctgagttcat tgaggttaaa ttgttctcag 660
gaagtttaag gtaaaaaaga aagaaaaaga ttgtacttct cctatggcag gaagaggctc 720
atttccaggg tagagacttc tgaaatccat aaaatmcatt ccagatccaa gacttcatgc 780
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gaatagagat aaaaatgccc aaagcatatg tgagggrcaa attttaaaaa ttaatttaaa 900
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tagaaagccc tgatgtaaat gtacaatgca aggtcatggc cataaatgta tagtttcaca 1560
tatttgcctt tggtcaagat tttgtctaat atcttggtta ttttagccag tgagtagtat 1620
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aaaaaaaaac tcgta 1695

<210> 2234
<211> 1320
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (490)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (615)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1099)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1115)
<223> n equals a,t,g, or c

<400> 2234
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tgttcagccc ctgctttcag ttctttcagg gagttctcac gtggtcttca gaggttccca 240
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caatctyttc gtattyttgc aaacatttac tattttatgt ggkkgttttt tcttttcttt 360
ttttttttt ttttttgaga cggagtctcg ctctgtcgcc caggctggag tgcagtggtg 420
cgatctcggc tcactgcaag ctccacatcc cgggttcccg ccattctcct gcctcagccg 480
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ttagagacgg ggtttcaccg tattagccag gatggtctcg atctcctgac ctcgtgatcc 600
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aatagacata gatactttca agctacagaa ttatgtgatc aacttasgac aagtgcaaaa 1080
cgcactcctt gactatggna atcagagact ccctnccccc actgaggaag acaatgtggt 1140
tccaacccag ctgggagact gggtcctatt gcaaacttgg aaggaaggat cctcagcaga 1200
tcaactttcc ccccaagtgg aggggactct atcaagttct ccttagtacc ccaactacag 1260
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<210> 2235
<211> 805
<212> DNA
<213> Homo sapiens

<400> 2235
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tctactataa aaaccagtaa actaataaat aggttcaaca aaggttcaga atacaaggct 120
aatattaaaa aatgagtagt atttctatag agtagcaatc aacaaaccaa aaattaagaa 180
aacaatttta tttataatag gatcaaaaaa ataaaatact taggaactta agtgtaaaac 240
ttatactctg agaattctaa aacatcattg aaagaaatta aaccctaaat aaatgtaaag 300
acatcccatg tctttgaatc agaaaattaa tattgttaag ataatgatag tcccattctg 360
atctatagat cagccttaca gattcaacac aatttctgtc ataactctca gctgactact 420
ttgcacaaat ggagtagctg atcctaaagt tcatgtggaa atgcaggaga cttggattaa 480
caaaaacagt cttgaactag gccgggtaca gtgactcatg cctgtaatcc cagcactttg 540
ggaggctgag gcaggaagat cacttggcct caggagtttg aggccagcct gggtaacata 600
gtgagacccc tgtctctata aaaaatttaa aaattaggca agcctcgtga cacccaccta 660
tagtcccagc tattcaagag gctgaggtgg gagggtagct tgagcccagg agtttgaggc 720
tgcagtaacc tgtgattgtg ccactgcact ccagcctggg tgacagcaag actctgtctc 780
aaaaaaaaaa aaaaaaaaac tcgag 805

<210> 2236
<211> 1538
<212> DNA
<213> Homo sapiens

<400> 2236
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cctgacctca tgatccaccc accttggcct cccaaagtgc tgggattaca ggcatgagcc 120
accgcgcccg ccaccttgat tattgtttaa ataaaagatg aataaaagta cattcttatt 180
tttgattata atgtggccca atgtatacat ttcacttagt gtagcacatc acattgttct 240
tactaaaact atttctagtt ttacaccagc tcagattttt aaatattcat tgctttttcc 300
tacttctgtc tcaggcattg ccattctctt caaaacatat ttgaaaaatg tccaggcttc 360
tcatctctgt gtaaaactgt tcagtttgtt ccagtgtgac gagaaaaatt ggactgagca 420
tacttttttg tgagacatcc attttcttcc tttgatgaat ttgacaactt gtgacaattc 480
tcacattttg gaacaagtct cctaattata gaagaagcta ataatgataa tataagaaat 540
tataaattat ttgactgttt tcaatttatc caaaaggaag tttatcaaac tttctcctcc 600
tactttctgc tccaccccac ccctcagccc cgatgcacac gctgtgccgt cacagcactt 660
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ttctagcagt gtatcagtta gacattctag aatatttcac aaaataagaa ttttgcagaa 780
ggaacattat agctccctag gtctagcaaa tgagggaact agggtacaga gaaattaagt 840
gacttaagat ctcacaacaa actagtggag tacttctact taaatatatc tctagatact 900
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atgatgctgt aaagtctggc ataatattct agtggtcaag acactttggg tagtaaatga 1020
gagaggccaa attcaaatca ggctaagaat aaaaagaaat gttttctttc aagtgggtgg 1080
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gctcaaaaat gtcatcagaa tctgcctctt tttctctctt ggtgttgctt gccactgtgt 1200
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gtggccaagc ttgaatctca tgccacatcc ctaccaccag ctccactaaa aagaaccaca 1440
tggacagaag gggaggagtg gttacaaagg gaaaaataaa tgtttattac ccagggaggg 1500
ataatgaatg taaggcaagc aaaaaaaaaa aaaaaaaa 1538

<210> 2237
<211> 698
<212> DNA
<213> Homo sapiens

<400> 2237
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tgtatatgtt agtgtgtata tgtgtcttta tcttaaattc ttacatttgt tgtatctatc 120
tagtgctcag tatgttatat gatagtacaa catccaaaat ggatcaagtg tgagaaattt 180
atttcacatc aactttcaga ttgcaatgtt tattcagtat ttattaacac acatgggaaa 240
tattataaaa ttatgtcttt ttttagattc tctttaaatg atattttccc ttagaattct 300
ctgtggctcc catgaaattc taaggtataa ttaaagtcaa aaataagatt ggattctagt 360
tgcttttacc cctaaattta aaagtgatat ttcaacacta aattctatac tttacctaat 420
ttgattacaa agatgaacca cataatctca gcattagcct caaaggcaaa ctcaatcata 480
atagaaggaa cacaagcttt gatgagatct ggatttcagg cttagtttgg tcaaactgaa 540
ttaactgagc cttgtgacac acacctgtag tcttagctac tccggtgact gaggcaagag 600
gatcgcttga gcctagaagg tggagactag agtgagttgc gtttgtgcca ctgcacctca 660
gcctgggtga caaagtgaga tcctatctca aaggaaaa 698

<210> 2238
<211> 525
<212> DNA
<213> Homo sapiens

<400> 2238
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gggcacagga gatggctgca cctcctgcag agttaacctt ggctgagcaa gaggctccag 120
ggctgggcac cagatcaacc tcataccccct aagtgagggc atcattaatg tctgtggcct 180
gcaagtcgag gcatgcaggc agtcactggg tcaacatctg agcactcctg gaccagaacc 240
agtgcattcc agaattcttg aattgaggat actaagacag ggattcataa tgccctctgc 300
ttgatgtgct ggtggttgcc aggaggcttg gcttcagatt cagaggaaga taccaaaaaa 360
ctgatcgttt ccttgaattg gcttttctat ttacttcgtc tgtgtctctc atattgaata 420
tcctaagaga gatgctggaa tattttggcg ttcctctaga agaagtttta ccgattggag 480
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa 525

<210> 2239
<211> 861
<212> DNA
<213> Homo sapiens

<400> 2239
aattcggcac gagtgcaccc caacataccg tgtttaactc ttctgtcttt tgtttttgct 60
gctatttata ttttcatttg atatgtttta taatgtttgt ccctagagtt gtcctttatt 120
gaatacaagg gtcttttctc aattgctata atgtctgtta taatccagat gtagatattt 180
gaacaatgtg aatacacatc tttatgtgta ttatcttaag tgctgtttaa tattaaagtg 240
tatttaaaat gaccagattt caaattagtg cagttttgag atatttgtta cttaggtctt 300
accaggtatg cacctgtgtt gtaatttatg ttggtatgct ttagatctgg tgtttccttg 360
gtttttgct gccgtatctc aagtggctag atttgatatt tccttatccc tgatctgaca 420
tttttatgtg accaagtttc tgtagcattt tgttgaacac caggtactgt tgccactgtg 480
cctaacccta ccatctccac tccatgctat ctcttacttt acatgtaaat gacagttatt 540
ttagtcactt ttcacaatgt gaaatgtttc taggacactt gtccatgaac aggagcaaat 600
tgaaatttga aatgatcaca tctgattgac ttgtaattag aggatgtttg ggtgtggttg 660
aatgtattgt atctgtactt attgaaaaac ctgaaagacc tggactcact atgttttgtt 720
ctgcaacctg gttagtcagc tacgtggaag tgaccagaga gttgaaagcc aatttattta 780
tccctccaag atgaataaaa cataaattac tcttctagca aaaaaaaaaa aaaaaaaaaa 840
aaaaaaaaaa aaaaaaaaaa a 861

<210> 2240
<211> 571
<212> DNA

<213> Homo sapiens

<400> 2240
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tctatccttg atcattcctt gacaattaga gaacaaattg agcatggacc atttatcccc 120
tatttatatg caaaattgtt ctaagtaagt attgatgatg ttctctatag aaatttcaat 180
cactcacttc cttgtctgtt ctcctacaca atattatcag ctctgctgca catttcctca 240
ttggtgatcc ctgcaggaaa ataggagata aggtcaattc tagttgactt ttatgagaat 300
atgattatag caggctttct ttagttattg gaatatgtga taagttagga caaacaatta 360
tgcagcaata aatttatctt ggttgtttta agttcatgtc aaaaattcag acatgctaat 420
gttggtagct aagctcacac aactacctgc ttatttacaa acttgcaatt caggaataaa 480
tgattgggat cttatatggc aagtgcatga tgccagtcta acaggagcag acgctctgtg 540
catttgcaac tacaaaaaaa aaaaaaaaaa a 571

<210> 2241
<211> 446
<212> DNA
<213> Homo sapiens

<400> 2241
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atttgtgaag acccaaagat gcagtttgta ttgaccactt atataaggaa ttagacaaag 120
agcagtaaat tgcagaaatg tgatgaggtg gggggtcggg ggcttgggcc agggcaggtg 180
attggaggag aatggctggg aaggaagggc cagtatagca ggtggtacag gtttccctca 240
gcctcagctt ctggtccttg cccataggaa tcatgcctcc cacctggcca agggaggaca 300
cctttcacat gggaatgtca tctcctgctt ttcagaaaca gaaggaaggt cagagtgatc 360
ttcttgtacc tgctttttgt ttttgttttt gtttttgttt ttgacagagt gagactctgc 420
ctcaaaaaaa aaaaaaaaaa aaaaaa 446

<210> 2242
<211> 780
<212> DNA
<213> Homo sapiens

<400> 2242
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cccgttcaca ttaaccaggc atccttaggg aagattctaa tggcctgaat ggacatttca 120
attacatata tgttgatcat gtgtattttt ctagtaagca ctagtacctt acttgccctc 180
ccctgattaa acaaaaactg aaggtataaa acctgcccaa atggaaacct atttttttcat 240
agaaaacatt gacaattata ttttcatgtt attctatctc tgtttctaat gcatttttct 300
catattcata acaggggaga tagagttatt cttcttaaaa gagttgatca aaactggtat 360
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gtcaagaaga acacaaaagg tgctgaggac taccctgacc ctccaatacc ccacagctat 480
tctagtgata ggattcacag cttgagctca aataaggtaa gaacatactc tatcatgtta 540
atgtaatatt ggaagctcca agtaagataa tcggtgtgtg actttaggat attagattag 600
aatatcatat ctattgcaga gaaagagatt tacatattat gtttctacat gtgtgagtgc 660
cacatcagta aatataagtc agtgtttctc aaataggtgc tggcataaag atttaatgat 720
taattttgct catttcattt tcaagttaaa atatcgaaaa aaaaaaaaaa aaaactcgag 780

<210> 2243
<211> 464
<212> DNA
<213> Homo sapiens

<400> 2243
cggcacgagc tggtttctac atggaagact aaactcatgc ttattgctaa atgtggtctt 60
tgccaactaa atttaagatg cagcatttta gaaatttaca tatcaatgtt tctacagtat 120
tgtttgctaa tttttaaata aagtcatgat cagtgtgcat ttgtgattat atgtgtactc 180
attctcttac ctagcgaaca agatcttttc agagtggtgt ttctaaaaga gcatgtacaa 240
aagtggcctg tggacattta ggcctgggtg atgcatttgc tcttcctgtt tgtgccaatg 300
tatcaatgta gagttgctct gttttcttca actgtattta ttgctgcatt tctcagcata 360

aacttatccc attgtatttt ttataaataa atatttttttt tgaactttaa aaaaaaaaaa 420
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa 464

<210> 2244
<211> 785
<212> DNA
<213> Homo sapiens

<400> 2244
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ctgtaaagct atgggatctg cttgggattt tcaagggtga gatagggtct ataatagaca 120
tgtgtttact gattgtracc ccaggcattg gttttctgts cttcattgtt aggataggtg 180
gatctgggga cacagrctgr gtggagtgga gaagaaagga tttattaata atcagggagg 240
agcatgtggg atagatctga ggtatctgca agcatttgag aactactgat tgtaactata 300
tgaactgaag atggctcagt gcaatcctgg gtctttccac attccatatt taattaaagg 360
cctttgccat atcttggttc ctggctcaat tttagtcaga taaaatttaa gttattataa 420
aataataaca aatttggcat ataaggtttt aaactgatca cggtagctgg acagcattag 480
caacaatagt tgaaaaaata gagcttcttt atgcagtgat atctgtataa tctatttagc 540
tcaaagataa cattgagttt atatccacgt atgtttatga atgtgtaatt tggacacctg 600
ggattttatt gtatgtagat gttttatccg ttccctttt aaaatccaat gttctatctg 660
taatgctctg ccactacaca ttctttcaaa aaaattctga ttctaaatct ttaatgatga 720
tatgcctcaa tcttctttta acatagatag ctcttctgga aaaaaaaaaa aaaaaaaaac 780
tcgag 785

<210> 2245
<211> 410
<212> DNA
<213> Homo sapiens

<400> 2245
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taccagccca gtgaacccag ctgtcttccc ccatctgacc gtggtgcttt tggccattgg 120
catgttcttc accgcctggt tcttcgttta cgaggtcacc tctaccaagt acactcgtga 180
tatctataaa gagctcctca tctccttagt ggcctcactc ttcatgggct ttggagtcct 240
cttcctgctg ctctgggttg gcatctacgt gtgagcaccc aagggtaaca accagatggc 300
ttcactgaaa cctgcttttg taaattactt ttttttactg ttgctggaag tgtcccacct 360
gctgctcata ataaatgcag atgtatagca aaaaaaaaaa aaaaaaaaaa 410

<210> 2246
<211> 1304
<212> DNA
<213> Homo sapiens

<400> 2246
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gaacctcctg ccattctaat tttcctgctg caccccatcc cccacacacc cctcacgaac 120
attgatataa gcagtattaa cacagtataa agaatgttca ccttgcatat gtcatttcag 180
gcacatggat tcaggagaag cacagttgag tggaagaaat ggtagacttg tgaggcttgc 240
cccaggcctt gtgtacacgc aataagtggt gagccatggg tctctccgtc agcgcctccc 300
tccccgccac cacttcaggc caacaattta aggtgctgag ttgtaaggct cctccattgt 360
cagtacaggg ctcgcctttg tagccctgat cactaccagt acacttttca agacaactga 420
gtatttttgt atgcctttgc cttccctttg tccatgaaac atgaagagtt gtttatggtt 480
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tattttcctg tctgtcaaag acagaaatta caggagatag ggagggtttt ttagcatctc 660
tttcaaaaga tgtatgtcag aatttccttt gcacaccaag aactggagct tagagcccca 720
ctattctcta agccaggttc tagtgcctta cactccagaa tgtcagatgg tgggtgcaga 780
ttggaagaaa gagaaaagtt catctcggtg tgtgggttcc catccgcccc acatagcctc 840
tccttcttcg gaacaatggg cgtggggtag aaagctcttt cagtgaaggg tgttctagca 900
gctcagttaa cactttactc tccagtcaac acttgggaca tataaaaatg ccattgtaac 960
tactgtagag tcctgtgact catcgtttgt gtttgtcart ktgcagttca gcttagccct 1020

tccctgttcc tgtgtagtta caatctggcc ctgaagacat ccgaggcact tcagtaagtg 1080
ggatcttttc tagagatcct gggtgacttt gggtgcacag ggtgaccgag catttctgcc 1140
cctgtgaatg tggcactaac actgtgcact gtctccacca agcaaggttt ccactgagtt 1200
tcttctcatg ttactgggtt tgtaaatgaa taaacacatt ttaactactc ttgcacggct 1260
gcttgtgaaa aaaaaaaaga ataaaaaaaa aaaagtttgt cgac 1304

<210> 2247
<211> 1248
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (607)
<223> n equals a,t,g, or c

<400> 2247
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tctcatggag taaaattcca gaggtggaga catgtaatta atacttaaat ataaaacagt 120
agattttcta aacgcagaaa acggaagagt aacaagaaac taaatcaagg agcattatat 180
agcctagact gcagagactc aatataataa agttggcgat tcttcctaat tatcaaattt 240
actgcaattc cagccaaaat gtttcagtgg ttttttttgt ttgttgtttt tgtttttgtt 300
ttgcccttta gcttcacagg tttgttctga aatttatgag gtataaattc ttaagagcag 360
caagaaaaat ttcgaatcta tttgtagaaa ctgcatatga tgatggttca taccagtaga 420
gagaaagatt ggatttgggg gtattactag tagtaagggg attcactagt agtaagggaa 480
atgcaaaata aaatcacatt gaactagttc aaaatcatca cattggcaaa agcattagag 540
tgccaattac tggaaagatg tggagcaata ggaacactca tacggtgcta taggaagtag 600
ttgtgtntag cataatttgg caatgtctag taaagttgaa gatgtgaata atctttgacc 660
cagcaattcc atgtttaaac ctctacatak tctctcctcg tgtttcaagg aratacatat 720
gatggtccat tgcagaactg tgagaatgag aagttgaaag caatctaacc attaggttaa 780
atacaagata gaatgcaaac taaaatgaat aactagagat atttctgtca acatgggtaa 840
acctcaaaaa tagtattaat gaaattgaac tacagactat tttatataat acagtataac 900
gtacaatttc aaaacatgca aattagtgtt atgtattttt gtcatggcta aatactatat 960
aaaaaggatc taaaagaatt aataaaataa tcatcagatt cagaacagtg gtgacctgca 1020
gggagaaaga caactgagat tggggaaagg atgcaaatga aaataccttt aattattcat 1080
ttcttttaaa aataagcaaa tactgtatag ccaattctta aaatttgata aagctggctg 1140
tgagtatatg agtcagttct tactctctgt atctttctgt ataaactatt tcataatgca 1200
aaaaaataaa gaatatttaa atgaaaaaaa aaaaaaaaaa aaactcga 1248

<210> 2248
<211> 914
<212> DNA
<213> Homo sapiens

<400> 2248
cgcgtccggg caccagctac ctcagggaca tggcacgggc acctgctctg tctgggacag 60
atactgccca gcacccaccc ggccatgagg acctgctctg ctcagcacgg gcactgccac 120
ttggtgtggc tcaccagggc accagcctcg cagaaggcat cttcctcctc tctgtgaatc 180
acagacacgc gggaccccag ccgccaaaac ttttcaaggc agaagtttca agatgtgtgt 240
ttgtctgtat ttgcacatgt gtttgtgtgt gtgtgtatgt gtgtgtgcac gcgcgtgcgc 300
gcttgtggca tagccttcct gtttctgtca agtcttccct tggcctgggt cctcctggtg 360
agtcattgga gctatgaagg ggaaggggtc gtatcacttt gtctctccta cccccactgc 420
cccgagtgtc gggcagcgat gtacatatgg aggtggggtg gacagggtgc tgtgcccctt 480
cagagggagt gcaaggcttg gggtgggcct aatcctgctc ctagggctgt gaatgttttc 540
agggtggggg gagggagatg gagcctcctg tgtgtttggg gggaaaggtg ggtggggcct 600
cccacttggc cccggggttc aatggtattt tatacttgcc ttcttcctgt acagggctgg 660
gaaaggctgt gtgaggggag agaagggaga gggtgggcct gctgtggaca atggcatact 720
ctcttccagc cctaggagga gggctcctaa cagtgtaact tattgtgtcc ccgcgtattt 780
atttgttgta aatatttgag tatttttata ttgacaaata aaataaaaaa aaaaaaaaaa 840
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 900
aaaaaaaaaa aaaa 914

EFS-Web 3665550

<210> 2249
<211> 1122
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (63)
<223> n equals a,t,g, or c

<400> 2249
tgaacagagc agtgagctgt gatggggctg gggctggggc ccaggaagga gcaggcagga 60
gantttgtat gcaccgtgat tcaaatatta taacaaaaat catcgatcat gtgttaggca 120
ctttacagtt cccaaagcac tttcccatcc atgccctgat gatctttgac acaacactgt 180
gatgtgggtt ttattatttc cagtacagat gaggaagact gaggcctgca tcagtgaagc 240
aacctatcca agactacata gagaaggcag taaatggcag ggttagtctc agaacagggg 300
agggtctgtt ccccccgcag tgggcagtcc taattctgaa cttcacctat ctgggggtga 360
tagaggggaa caagaggaag cctgctgaag agaaaaccta aacatctgtt ttgtctacgt 420
atgacttcct ctgcttgtgg gagagaagga aggaaaggaa cacattgttg tcagccccac 480
aaccccaaca gaattaaacc ctggagcagg ttgaacagca gaggcttccc tcagatcaag 540
gagccaggag cagatgatct atctctgtgg ccacacagag agatgtcacc ttatgcaatt 600
tgcatatcat attcaattcc cccaactgct ctttctaatt tattcaactg gggaccaggc 660
tggtctcatg ccaacctagg agatgtacca tagcagtatg agcagaattc ctcaggagga 720
acaattagca aaaactgcag ttgcctctcg ataggcctga gcagagagag gaacaatagc 780
tctcacgtct ctcctcatca gattctaact aagcagatgt tctcatgctt ttttcttctt 840
cctatgttct gtatactgac acctcttctc agtggcatat gaaatatgaa atgtcatgtg 900
ttgtgagttt gtataaatat aaaggaatat atatacacag tagcaaaaga gaagatctca 960
tttacaaata tctatggtgt ttccttgttc tgtgttgatc tgttttattg atacaaactg 1020
aattttctta atgtatcttc tatctctatt atagtggcaa tgatggtata tgcattaaag 1080
ttcttctgaa ttgtgaaaaa aaaaaaaaaa aagggcggcc gc 1122

<210> 2250
<211> 1041
<212> DNA
<213> Homo sapiens

<400> 2250
ggcacgagcg actccagact ctcttacaat tggcaataag acaagttaaa ttacatgagt 60
gtctcaatcc ctttctgtaa acagggaaga aacagtacca atatcatgaa gtttcaagta 120
tcaaatggag catgcaatgt gtttatcaca gtatctggta tacagcaatg gtaattcctt 180
tcctcttttc cttccaaatt attgctccct gatcccatcc ttccaatgtg gctcaattat 240
cgggttctag tcattaaatg ctactcttct acaataagcc acataccagg tctgagaaag 300
agtctggatc agacaagagt tcagcactgt agtagaaaac agattctggg tatcagagga 360
tctggtctca agtcctgact gtattaccta tagctctatg aatttaacct tgctgagcct 420
taactgcctc atctctaaaa tagacttaat acttattcct atctaatggg attgttatga 480
gggttaatta agctaataga cttgaaatca tttagtgaac tgtaatgtaa caataacaat 540
caccatcatt agcttcctcc tgggtcattt acagactccc tatctggaag acttgacctg 600
ccagagatca ccaagtctca atacttaggt gcaaagggga acggctcaaa gctaaaaaga 660
aataaactag agacaaataa aattaaagcc tacttaatga actacccagg acctttaac 720
gttgaagaga tggtacaggc taaagatata aacaacctta actgagttgg gctacatttt 780
cagatgaaag attcatgaca gtagcgacag cgtttcacca tgttagcctg accaacatgg 840
caaaaccctg tctctgctaa aaatacaaaa attagccagg cgtggtggtg cacacctgta 900
atcccagcta cttgggaggc tgagacagga gaattgcttg aacccaagag gcagaggtcg 960
cagcagtgag ccgagatcac gccactgtat tcagcctggg tgataagctg agactctgtc 1020
tcaaaaaaaa aaaaaaaaaa a 1041

<210> 2251
<211> 900
<212> DNA
<213> Homo sapiens

<400> 2251
aatctctagg aaggttattc ttgagataac caatgtatat actttggtgt gcagaagtgc 60
ttatatgtgc tttccattgt atcatacaga gtactaaaaa gatgtgcact caaggatcaa 120
gactaaataa aattaataac tgtgactgct tcttcaagga cgttcttcag tgaattttaa 180
gaaaaactgg ctttttaaac tgttgagtac atagtgatga acaatgactg ctaatacagc 240
tggtgccatg gctttgattc atgcccagtc tggggaactg gaagctatca aagccattct 300
gacacctcgt tggaatctat cacttgaggg aggaacagta gccataagct cagtgaaaag 360
gagtttgtga ataattcccc tgaaaagttt ctctctcaat ttgagcagtc atagatgcgt 420
tgcttctttt tgaacctgtg tcttattcta attgagttat aaagaaacaa caatgaactg 480
tggaactgaa cagtccactc tgtgacaagt tcctctgtac aggttggtca ttgtgtgact 540
tttctaactt ccattatggt ccaaaaaggg ggttacaaag gtatgatggc tgttgtcaga 600
tctacacaga caggccagar gcatgtwatt ccctctctag gaacaaacat cagtcaccct 660
caggggttag ggaacccagc tgtcagcttt ggtaggaaaa cgcaaccttc tccagaacaa 720
ggaaaataag amcacccacc acgtcacatt cttgaggtgt ttgtgctgat ccttctcttt 780
aatcttaaca ttgtggaatc wccacggctk tgctaaacct agccccaarc ccacwcyacc 840
ttactaccag acaaccttaa ccaaaccatt tacccactat ttaaaaaaaa aaaaaaaaaa 900

<210> 2252
<211> 1536
<212> DNA
<213> Homo sapiens

<400> 2252
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ctggccattg cattaatccc tttagaccca agcatgaatt agctgacctg tggttatttc 120
cccttgccct ggctgccagg ctgctggcaa agtgaccatt tgcccactta catcctcatt 180
atgggaggta gagccctccc gatgcctgtg ctgattccct ccgtgtaaga aggatgcgta 240
gttgttggta gtcccacgag gcaaatagct acactccttt gcctggctct ctggattctg 300
cctcttttgt ttttaccctc tctgtgctta tggctctacc cttctccacc ttccatttcg 360
ctcagtttgg tttccttact ctctctagac catgtctttt tcatttccat gtacttacca 420
ttagtcatgt gtgcctctta cctaaaagtg tgtccgtctt tcatttcctt cgtaaattta 480
ggcaactata tgagtattcc tgggttgttt tggattgagt gagccttaag atatgacagc 540
tctagcacac agtaggtact cagaaaatgt tagcctctgt gctggactga tttcatattt 600
taccccaagt ggttcatgta actaggggga gttttgcttc acactattaa atccacttta 660
aagaattagt attcatgaag cacttagaac tgtgcttggc acatagtaag cactatgtgt 720
ttgtaaaata aaacttctac cttatttgac tttttaaaaa ttgtaattta tttttatgag 780
aataatgcag ctctggtttt gttacctatc tcaaaaactt acttataaat gggtacagta 840
ataatttata aaaaagaaaa tgactttaca tgttgttcat atgtgtactt tccaataaag 900
tcttggaata tggtgacaat ttagaaatat gtggggttct ttttttaaag gttgtactga 960
tgaactctca ttaaaaggaa ctgctatatt ttgttgttta ttgtagaatg gaagctacaa 1020
aagtattcat gcaatggcca aagatataga tctcctcgca aaaaatgcca aaacttataa 1080
tgagcctggc tctcaagtat tcaaggttag ttttgttgtt gttgttgttg ttgttttcct 1140
tggtaatagt agataattta aggtcagtaa ttttttataaa acaactttat tgagatataa 1200
ttcacatacc atggacttta cccattaaaa gtgtttaatt taggctgggc gcagtgctca 1260
cgcctgtaat cccggcactt tgtgaggcct gggtgggtgg atcgcgaggt cgggcgttcc 1320
agaccggsct ggccaacatg gtgaggcccc gtctttgcta aaagtgcagg aattggctgg 1380
gcgtggtggc gggcgcctgt ggtcccagcc gatcgggagg ctgaggtagg agagtcggtt 1440
gagtccggga ggcggaggtt gcagtgagct gagattgcac tccagcccgg gcgacagtgc 1500
aagactctgt ctcaaaaaaa aaaaaaaaaa actcga 1536

<210> 2253
<211> 1388
<212> DNA
<213> Homo sapiens

<400> 2253
ggcacgagat tgttactaat ctttgtgact atttaatctt caaatattgt gcttaacccc 60
agcaatccgc acgtatcctg caccccaccc caaaagagtc atctgtattt taatgccact 120
ggtcttatcg gtccttttgt ctgttgagac cagtcatgac agcattcaag attatgaaag 180
tgttacaatg ccgcttcaag tctgcaaaac ctcaaacgta gccaacttga caaatattta 240

agtgttacgg cagatttaaa atccatctgg gcacaccgtg gtaggtattt gtacagttct 300
tttaattaca catagcttta aaccatcaac ctgatgagtt taaagctttt gcacccatgc 360
cttcacttca gaatgaacac cttcattgtg atcttatgtt aacctgagaa ttgatttaaa 420
ggaagattga taatcctata ctttataacg taaaaataca ggggctacag gagggtacct 480
aattagacag ttctccaaac acagaacaca cactggaaaa ttttccggcc aattttgcta 540
cctcccaact tgatggatta gaggtagcgc aaatgctggt gctcccatct accttgtaga 600
cacttagcca tcaagaatca aggcacaaga agtgcactct ctcattaaca gtaaatgttt 660
gcaagatatt cagtttaact ttcagcatca tgaatgttct tatccagatt ttgaatccga 720
aaaactataa tccttttatg ttatacaaaa ttactatgat tttttacagt tctgagcata 780
ttaaaattct actggatttc aaaaagagac taatacccaa ctgactaact aaacaaatat 840
caacttgtta tactcaatga atttttttgg catttacatt tgaccgttgg ctttagtgaa 900
tgtccatatt taatttttta aggcaccatt acacagttta tcctacattt atcacatttc 960
ttaaagtgtt aagattctat ggctcatttc tatgtatttt tcttacttta caaaataacc 1020
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ataaagtgca tgttacctta gaaaaattaa tatttgctgc tttactcttt tgcaaaacat 1140
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aatgccagaa actgtataaa ctggatgttg cttaaaatct gtatcactgc catgttgaaa 1320
actcagactg cttttgtgat gtttcaaatg aataaaacta tcctcccctc gttaaaaaaa 1380
aaaaaaaa 1388

<210> 2254
<211> 1769
<212> DNA
<213> Homo sapiens

<400> 2254
gaaaaattaa agcacatggg taatagcatg ggcagagcag agactgagac gatctatgtc 60
catgccaaag gaagcatcct agtaagtttc tggctatggc aagatgacaa aactcggtgt 120
acgttttatc tggatcactt ttggagcact aaagcagata accaactttg tgctaacata 180
catgtgctca ggagagcctg attttaagac tgacttcacc ccattgctct tgtgttccag 240
aaccttcaag gaacatcacc taccagatcc aagctttgcc agcttagctt tcctcatgat 300
cagctcctat ctatctatca atcaatcagc tgtcagttcc acccatgtgc ccaagtgctc 360
ttcacacctt cacacctgca atgstttcct gtgcagccta ccttggagkt cccactcaat 420
gctccacttc cyttccagct cctttgaaga ctcagtcaca catgaatttg gcatttamct 480
ttagtaatat mcycacaagt gtgttactag tgcctacctc accttcacca gcctggagaa 540
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ggaggggcca actatataca aaaaaaatac acgtttgctg aaattactcc tagatttcta 720
gatgagtatg taaatttttc tgctcccaaa gctctggcat ctagtttgag tcaatctgag 780
ctctataaca ggtgaagaca tcatattagt ttgcagacta gactatcaat aggagaaata 840
ggacgaaagc agcactttaa aaatggatat taaactacca cgatcttgag caaacatctt 900
tatttaagaa atcaaatagg gtaaaaatta tgcaatttca cacaaggata caagacaaag 960
cttagaatta cttgctcaaa agttactcag aatggaacaa aattgttcaa gtgctcccaa 1020
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cttataggaa caaagagaca attcccagcc ccctctggtg tatcacctaa aagactgaat 1140
acaaatgtta atgtaatcca agcttttctt tgacaacaat actaaaaatt gccttacaat 1200
tttttacaag tacgagtatc aacagtttac tgtctgaggg aaaggaaata taagaatata 1260
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agacatgtga cacttagcac tgcacaagtg tttctttggc ttcttgagta gtgctgtgta 1440
tactgcctat acatttttat aacatctcta aatgcataat gtcaacgtat gtgctatcac 1500
atttcactcc caactgcaga atattttaat tttaaattta tctaccaaat cttgactatg 1560
acatttattt ttgggttgtt acattaagat caacctatct gggccgggca cggtggctca 1620
cacctgtaat cccagcactt tgggaggctg aggcaggaga attgcttgaa gtcaggaggc 1680
agaggttacg gtgaaacaac tgccattgca ctccagcctg gacaacagag cgaaactcca 1740
tctcaaaaaa aaaaaaaaaa aaactcgag 1769

<210> 2255
<211> 1502
<212> DNA

<213> Homo sapiens

<220>
<221> SITE
<222> (806)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (860)
<223> n equals a,t,g, or c

<400> 2255
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tctgaaaaat ttaaccttgt atggaaggca aggcaggaat ttttaaaaat aaactttatt 120
ttttggagtt gtggatttgc aggaaaattg agaagatggc aaagaaagtt cctgtatacc 180
tgatgcccag tttcccgtgt tgctaatatc gtaggttggt atgggatctt tgtttcgatt 240
agtgaaccaa tattgataca ttaaataaaa gttcatatag taagtcctca tttaagtcac 300
agatagttct tagaaaccca gagtttaagt gaaagaacgt ctaaacatgc caaatttact 360
atagactgat tgataggaac aagagttaag ttcctatggc aaatttctgg ttacagaaat 420
atcacccagc ttctaaataa agaacaaaac acttctaata ttaaccactg aaataaatag 480
gagctataca tacatttcag aaagattaat aaaaatcaat aagataatta ctcagttatt 540
ccagttcagg gcggtggcca gagcccatcc tggcatcttg gagcgcaggg caggaacagc 600
cctggacagg atgccctccc attgcaggtg acacacacgc acactcaatc tgggaccatg 660
cagacatgcc agcttcccta atgggcacag ctttggagtg tgggagctcg ctggactacc 720
tggagaaacc catgcaaata cgtgggagaa catgcaaact ccacacagac agtggcttgg 780
gctggggatc tatttttttt tttttncatt ctcgtcaatg ctgtaatcaa atgatgctga 840
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tcattacatc acatcaaggt acatactgtc aaaatgactt atcatctcca tactgacatt 1200
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aataaaggat tatggtcttt attactgttc tcttggaagg aagccactgt gtggacccca 1320
cacttcagaa gtaaggaatt atactccacc tccttgggtg tgaagtatac acataaatta 1380
tttggaatta ttctgcttag gagatttgtc tcatcccccc taccacgcta ctcctaccta 1440
tctccccttt tatactaata atcttataaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1500
aa 1502

<210> 2256
<211> 2199
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (2143)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2154)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2159)
<223> n equals a,t,g, or c

<400> 2256

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gtttatatgg actggtatga tattagggat atgaattaga aatggatgtt gttgcactca 120
tttaaaatat tttgcctctc actttatccc cagttatagt gtccttttga atttttctca 180
cacagtgcta ctatatttca tgaactggta tataaacaaa ccaaaattat ttcttcaaat 240
caagaactta tctacgaagg gcgacgctta gtcttagaac ctggaaggct ggcacaacat 300
ttccctaaaa ctactgagga aaaccctata tttgtagtaa gccgggaacc tctgaatacc 360
ataggattaa tatatgaaaa awtttccctc cctaaagtac atccacgtta tgatttagac 420
ggggatgcta gcatggctaa ggcaataaca ggggttgtgt gttatgcctg cagaattgcc 480
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attaaagatg attacaatga aactgttcac aaaaagacag aagttgtgat cacattggat 600
ttctgtatca gaaacattga aaaaactgtg aaagtatatg aaaagttgat gaagatcaac 660
ctggaagcgg cagagttagg tgaaatttca gacatacaca ccaaattgtt gagactttcc 720
agktctcagg gaacaataga aaccagtctt caggatatcg acagcagatt atctccaggt 780
ggatcactgg cagacgcatg ggcacatcaa gaaggcactc atccgaaaga cagaaatgta 840
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<212> DNA
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<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

US 2003/0224359 A1 Dec. 4, 2003

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<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (121)
<223> n equals a,t,g, or c

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<211> 643
<212> DNA
<213> Homo sapiens

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<210> 2271
<211> 1620
<212> DNA
<213> Homo sapiens

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<210> 2272
<211> 1095
<212> DNA
<213> Homo sapiens

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<210> 2273
<211> 2458
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1092)
<223> n equals a,t,g, or c

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<211> 1127
<212> DNA
<213> Homo sapiens

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<211> 378
<212> DNA
<213> Homo sapiens

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<211> 2056
<212> DNA
<213> Homo sapiens

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<211> 2366
<212> DNA
<213> Homo sapiens

EP 2 354 246 A1

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<211> 1079
<212> DNA
<213> Homo sapiens

Application Number

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<213> Homo sapiens

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<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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Application Number 09/683,545

<210> 2289
<211> 2220
<212> DNA
<213> Homo sapiens

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Application Number 09/726,578

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caattgtggc aatgaccaca actcctgtta tcgggccgtg cagttccgca caatatccgg 780
cacagctgtg ggctctggca gcagccagcc tagcgctggc ggcttaatta ggctttttat 840
ctttacattt gtctgaggac atctgaaacc ttcagtgtgg cctgtcacta attaggtgac 900
taattaaata gtcagtgctt ccttgctgat ctcagagctc aaccgcaatg gacaggtttg 960
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gatgtgccca agcagcaggc agcacggaca tccacagggg ggcatatggg agatggacat 1140
ccacagggca tacgggacat cagttctggt gcagaggctg gtctggtggc cagagcagag 1200
gggacggtgg aaggagcttt acctgccagg ctcagagtct cagtctcccc aggcagcaag 1260
agttgacatt ctgccaccag agaataagga tccagaactc accctggtgt cactaatcac 1320
aatggggttt cctattcgac tccaatattt aaatgtaatt aatgttaaat aaaagcacct 1380
tcatttactg aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ctcgag 1436

<210> 2301
<211> 2593
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (2583)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2589)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2592)

Top-Secret-Sequence

<223> n equals a,t,g, or c

<400> 2301
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cgttattacc tctctttgga atgttggaaa ggaatggtcc gtgtggccaa actcaggctc 120
tgaattggtt ttgtctgaag atgaaaaaag tgacaatgaa gataaggaag agacggaatt 180
gggcgtcatg gaggatcagc gtagtataat tcttcatctc atttcacaac tcaaacttgg 240
aatggatttg accaaggtgg tgcttcccac ctttatcctg gagaagcgat ctttgctgga 300
gatgtatgca gatttcatgg cgcacccaga cctactgctg gccatcaccg ctggggccac 360
accagaggag agagtcattt gcttcgttga gtattatctc acagcctttc acgagggccg 420
caagggcgct ttagccaaga agccctacaa ccccatcata ggcgagacat ttcactgctc 480
ctgggaagtt cccaaggaca gggtcaagcc taagaggact gcttcccgct ctcctgccag 540
ctgtcacgaa cacccaatgg ccgatgaccc ttccaaaagc tacaaactaa ggtttgtggc 600
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cattgtttgt aaagcccatg gggaatggaa tggtacttta gagttcacct acaacaatgg 1020
agaaaccaaa gtcatcgaca caaccacact gccagtgtat cccaagaaga tcagacctct 1080
tgagaagcag ggacccatgg agtccaggaa cctctggcgg gaggtgaccc gatacctgcg 1140
gctgggggac attgacgcag ccaccgagca gaagcggcac ctggaggaga agcaacgggt 1200
ggaggaacgg aagcgcgaga acctccgcac accatggaag cccaaatatt ttatccagga 1260
gggcgatggc tgggtatact tcaatcccct ctggaaagca cactgatggg gtggaggtgc 1320
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ttgttggcat tcactgagac cttgtattag catccaagaa atgatgagag agagagaaat 1440
tatatactat gaaaagtgca cccccacact ctgctagagg aatgaattta ttcaagagcc 1500
attcggggca cgtgtgtgta cacaccgtat acgttcacac acatgcacta tgtaaacatc 1560
tgagtatgat tacacattta aatactgcac tcaccaaggt taaagtgggt aatcataagc 1620
tccttttttat caatgaagtt tgaagttttt ctatttttca ctttgccaaa aatgttttac 1680
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ccgatcactg tccataaggg agaaagtggc tcattcctgg tagaagtatg ggtggttatc 1800
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ccaagaaaga taagcaagta tttcctgctg gatgggggtt ggcaggaagc tgttaaagat 1920
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aggagttttc cacccgtctc tcatggtcac agcgctagtc attcattttt gagaagttgc 2040
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tttagaagtt aaatacatgc atgcacatga aaacatgcac aaccacagcc tcaatcttgt 2160
atttagtttg ggggaaagag aagagaattt cctgkggatt atttttttcct caagtgcacc 2220
tctctggtta acccaaactc tgcaagaaag cactgtgact aaaacataca taacgcctgc 2280
ataaatattc catggtttca gttaaatttc agtttttagc ctttacacat gaggtcaaag 2340
gagtgacgaa aatacaaagc aaggaaaaaa tgaaatatct ggtttttgct gaatgcttaa 2400
tttatttttt actgtgccac tccaatattt atcaaatcca aatagcatga atgcttctct 2460
gtagtaatac taattttgtg ccttttgtct gctttcttaa gaccagttgt tcacactttg 2520
tagatattag acaaatatat ttcgattgaa tacaaaaaaa aaaaaaaaar ggggggccgc 2580
ccnaggggnc cna 2593

<210> 2302
<211> 673
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (245)
<223> n equals a,t,g, or c

<400> 2302
gcggcacgag gttacttggg aggctgaggc aggagaatgg cttgaactgg ggaagcagag 60
cttgcagtga gccaagatgg tgccattgca ctccagcctg ggcgtgacag agtgagactc 120

catctgattg taaagcatct agtacagtgt acagtgcctt ggaaatgata ggtatggaat 180
aaatggtaat tatttttata ttatatatat tatgtattcc tgttattaag tgtagagttt 240
tatgnagtat aatttgattt tattaccttc ttttttacaa gctgttttct cagtattttt 300
cttggatggg atgacgctag gctggaaagt ttttttcatc actatgattt tataaaacaa 360
kkttttctat garcctttac ttacttgact ggattggact aaaagcactg atcagaggcc 420
acgacataaa aattcagtcc ctttgtcctt ccccgtgcct cccaaagtta ctttaaratc 480
cttasaatat ttctttaaat attttataga caaaaaattt aaagactatc tgtattgcaa 540
aattaaacta tttctttaat gaatatattg cttattttaa gttccaaagg tgaagtcttt 600
aagaataaaa cattaccaac tcctgctttt atatgtaarm aaaaaaaaaa aaaactcgag 660
gggggggcccg aaa 673

<210> 2303
<211> 1051
<212> DNA
<213> Homo sapiens

<400> 2303
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cctcggcgtc cggtctggcc atgcttgagg agcccttcag ccctccactg cgctgtgggg 120
gcccctctct gggctggccg aggccggagc cggctccctc tgcttgcagc ccttcctctg 180
acgtgcacag gatatgaaaa tgtctgatag tgttgtggct gcagtgagac ctgggagtgg 240
cagtttcttt cactgcagtt gtctgtccaa agcgaagtga actagcaagt ctcttacaaa 300
agggcaagct ctgaactgcg cacagttttt ctcagtggga gaaatcttct gtgtccttgg 360
atgaagactt actcagtaaa ttactttatg atcactgata gctctgtgga rgtctccaat 420
gtctcctctg gamtgstata ccagccacct gacagccatc ctgcctccct catccctcta 480
ctacagtacg tactctacca gtactctgag ccatctttca cagagttagt ttgagcattc 540
cctagctcaa aactctccca ttgcttcctg ttgcactgag aattaaatct aaagacttca 600
cagagtccct caaggcccta cagactcttg gtccccatgc tgcccctctg actcacctcc 660
tccctaccac tcttgccttc ctttctcatc cccgtcactt tggcccactt gatgttcttt 720
gaacacacac atctggctat ctccccaagt ctttgcaatt gcttaaacca ctcttcccag 780
atacccagaa gacttgcttt ctcatttttct taaattatct ctgtattcaa atatcacccc 840
ctcaagaggt ctatcctgac tttctctctc accttctcct tttctttatg atatttagcc 900
ataattcgcc ccccatacac atgcatttgt ttattcatct gttggtttat tgtctgtctc 960
ctcactaaaa tgtaattact ccaaaatgta atttccacaa tagcaataaa tttatctttt 1020
tattttaaaa aaaaaaaaaa aaaaactcga g 1051

<210> 2304
<211> 743
<212> DNA
<213> Homo sapiens

<400> 2304
ggcacgagcc tacgccctgc gtgcgctgtg ctgactacct ctccagcatg ggaggcttcc 60
agatgagcag acacccgaat cccagcggga gcccgtcaaa aatggagatt tctgccgtca 120
ctctgggact cttaattcgg tccgtctggg gtggggccca ggaatctgca tttctgataa 180
ggtcacccgc tcccctcccc cattattcca gtgcaaagag gtcctaggcc cagtgcccat 240
cagctcctca agacaggaat tactatatct ttttctgaca actgttaact ttgtacaagg 300
ttagcaaata aatccaggaa tgaatggaat cttaaaactc gtaaaacaac aatgaaaggt 360
aattcacaca aaagatacaa aatccaaaat tgtcaaaaaa gatacaggga aaagtaaaca 420
tccatgttat tcctatagtc cagccttgca attctctcca caagccatta gtggtaatgg 480
tttcttggaa atattttcag atttwtttwg cccatatcag cattttaac atcttttgtc 540
ataaatatgt cgtaaataac aatgttattg atacatatcc ttttaaaaac acaatggtag 600
tatgctatac tggcttgttt tacttwtgaa tatatgtagr gctgcctcgt tccattgtaa 660
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 720
aaaaaaaaaa aaaaaaaaaa aaa 743

<210> 2305
<211> 429
<212> DNA
<213> Homo sapiens

Tue Sep 30 2003 09:59:59

<400> 2305
ggcacgagcg ccgcttggcc ctgctcggcc tgcagcccgc tccccgcttc gcccactcgg 60
ggcccccgcg ccagcggccc ctgtctgccg cggaaatggc tgttggactt gtggtgtttt 120
ttacgacctt cttaacacca gctgcatatg tgctaggcaa cctgaagcag ttcagaagga 180
attagatgga agatgatgtt gaacagctgt taacgtccaa aaaactttca gaaaaagctg 240
tgtttttgtt aacgagcaaa attgcctagt tgagttgatg caaccattgt ggtattcact 300
ttcctcatgt ttatgatgaa tattttgcac ttttttagta ctgtgcatta tatagatgta 360
tagtcaaaaa tgttctgctt aagtgttaaa taaaacggaa acacttattc gtgaaaaaaa 420
aaaaaaaaa 429

<210> 2306
<211> 1471
<212> DNA
<213> Homo sapiens

<400> 2306
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cagagcttag actggggccc cccagtggta tagtggtaca agtggttgac tcacacacag 120
cacctccact atgttttggc cattagtctt cctcgttgac tctggaacaa cattgcctcc 180
acagcaaagg acttcatagt aaatttggtt tataatgcag ctgtattcaa aaatgggaga 240
gctagggaac taggatatgg gaaaaaggca cagaggaaaa cgtatggttt gaatgaataa 300
ggctcctacg actgtctcag cttctccaca gcagccagga cgccctttc actgctaaag 360
cagtcctacc tgaggcccag gggctgccag attgacccat aaataatctc cggcgcctca 420
gatccagaag ctgctgagcc tgatcttagt gccttctcct ttctctgtgt ggcccccag 480
ccccttccc cactgccttg tgtccaaggc cctttccttc atgtatccat ggaggagaga 540
caaaaataca catcaataaa ataagatagg gaatccataa atagacattc agaagtatgg 600
ccaacggatt tatcttaaaa ccaatggagg aagaagagtt tcaataaatg ttgtggactt 660
ccatttgtca aagaccaaaa caaaggaacc ccaaccttac atgtaataca aacttaactc 720
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cctgttaagc tgggcgctgt ggttcatgcc tgtaatccca gcactttggg aggctgagtt 960
gggaagaaat taatagcttg aggccaggag ttcaagatca tcctgggcag caaagtcata 1020
cactcttgag ggaagagaga gaccttctca tattgtttta tattgtttta tactcagtac 1080
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gacccttca tgtgaaatct ttagtgttgt gagcccttaa aagggacaga aattgtgcac 1380
ttgaggagct cagattttaa ggctgtagct tgccgatgct cccagctgaa taaagccctt 1440
ccttctacaa aaaaaaaaaa aaaaaaaaaa a 1471

<210> 2307
<211> 1154
<212> DNA
<213> Homo sapiens

<400> 2307
ggcacgagaa tttgcaggcc caaggaaaat tccagaaagc ttggaaccac tttaccattg 60
ccatagatac tgatccaaag aactacctag cctatgaagg aagagctgtg gtctgtcttc 120
agatgggtaa taattttgct gcaatgcagg atattaatgc tgccatgaag atcagtacta 180
cagcagaatt cttaacaaat cgtggggtga ttcatgagtt tatgggccac aaacagaatg 240
caatgaaaga ctaccaagat gcaattactc taaaccccaa gtactcgctg gcttacttta 300
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aagctttaaa atttgatcca gaaaatgata tgttctcatg aatcgagcta ttacaaatac 420
aatattaaag aaatatgaag aagcaaaaga agattttgca aatgtaattg aaagctgtcc 480
cttttgggct gcagtatatt ttaatagagc acatttctac tactgcttaa agcaatatga 540
actagctgag gaagacctta ataaagccct gtctttgaag cctaatgatg ctctagtata 600
taattttaga gcaaaagttc gtggtaaaat aggtctgatt gaggaagcta tggctgacta 660
taaccaagca cttgatcttg aagactatgc ctcagttata tgattacata gactgtggtt 720
gctatagtag tttacacagc tgttctctct gaaacggaaa catatttgtt gtctaaaagg 780

ttctaccatt ttcattattg tattcgttat gcttagtctt ccatataacc ttctatgcat 840
tttaataaaa tgtttgttat acattaatta taaaacatat atcatttgct gcatatttgg 900
aataccttga gaactgaatt tttccaaggt tgcagaatct caaggaaaat gtttcttaag 960
gaattaaata ggaatgtctc ttaacattta aaatattttc tttaattctt tttgaaataa 1020
tactatacat tgtagaaaaa gtgtcattga ccttttcatc agtccttgct gacaatgtat 1080
taaacagtat acagattaaa aaataaacaa accgatgact ataaaaaact gaactcaaaa 1140
aaaaaaaaaa aaaa 1154

<210> 2308
<211> 395
<212> DNA
<213> Homo sapiens

<400> 2308
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aagatcttgg tgaatagtct ttcactgtgc aattttatct tagaaattgt tttacgtttg 120
atcatgattg tgcttggctg gatgtttttt gttggacttg tgtgttacat gggcacgttt 180
ccagagttga tggaaccatg tggaagggat ataaatatcc cccaggaggg actccagtgg 240
aagtaagcaa ggatgatcct ggtgaagtaa tgcagctgtg aagctcacct gaccagctgt 300
acagttcctg ttgttggttt cacataaagt aattgcacat taaaaaaaaa aaaaaaaaaa 360
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa 395

<210> 2309
<211> 975
<212> DNA
<213> Homo sapiens

<400> 2309
ggcagagtca acggctcgcc cagttatgcc tccatttcc tctgctgcat ggccccagga 60
gagattttaa ttagctttct aaccttggtc cagattgcac atgcaaatgg tagaggatgc 120
aacacccccg cttgtggagc tgccgcttgt gtctggcatg aaaattcaca agaagagagg 180
aaatactgag gagaaaatgg cagattgtgt ttgctgaatt tgattgacga rgaagtcacc 240
atgaaaatca cagtgaacca tttggaaagc aaactgccaa aaaaataata gttagtcatg 300
ctctcaggct ggttgttttg gctgttgtgg gkttcttgca tttccagatg attgcaaaga 360
gctgtttctc aatttctgca acaagtgcca gctgaaattt tggtaccagt ttcattaaat 420
atgtagaaca atttgagcct gagtgagttc tgtggagccc atactacctg cgattcaagc 480
cagcaacctt ggaatctccc tgaacaattt ctatggtgtc caatcacatt tgcaatcact 540
ccccacactc agactgtgta tttttggctg ctctccaagc ccttgaggaa aacacttgga 600
gtcaatctca tccttttgat gcagtgctga gtaatgagag attttagaag atggaaaaaa 660
gaaaaataca ttgcactctg aaacattcta cataaaaatg gaatgtgtgg tcattagatt 720
aactcaggct ttggacctcg gggcataaaa cccatttcct cttacaccag tctctgaagc 780
ttaaaggatt cgttatttcc agttgcaaat gccatcagaa aaggattgtt tttctttcta 840
gtaccaccaa gaatgtagtt taccattgtg aataaactgt cttaagcttt ccccgaataa 900
aataaataca aatgctcctc aacttaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 960
aaaaaaaaac tcgag 975

<210> 2310
<211> 1158
<212> DNA
<213> Homo sapiens

<400> 2310
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tcaggttgaa atcatatttc ttcagactga taaagtgttt tcattagagt ccctcgttca 120
tacgtgttgt ctttgatgtt tcttgctgtt ctactgctga ttcttatgct tttcttaata 180
ttagtgtatc accaagtata tatcagtcat ggrgagaaaa aaataggttt gatgtaccaa 240
gggccttaaa atcacactga cctgatgaat caaaattcac ctcattgcca ggacttggac 300
ctatatcgat ggacacaatt ggtaacagct tccgaaagtc ccacagcttt gtaaccccac 360
aggcatcaca ggatgctatc atgtgacccc tgggatcaaa aatggcatca tgatagaatg 420
cmtgtgacca taaagtgact gctcamatwt accctaggaa gmcaaagcmg aaacagrgtc 480
aaataaattt attacatttc atcattagac agtgctgagc taggrgaatc ataggagatg 540

ttgtcagaag aaaagcggag gagcagatca tgtaggtcac tggaaggaca ttagcttcta 600
tttgaataaa atgaaaatcc tttcttgaga ctggccatag gagtgactga tcagagtcac 660
atgttgcaag aatcactctg ttttaccatg tcgagattaa actataagag agcagagatg 720
ttcttgcatc ccatatagac agggtcttgt ctgcagagct tgtgagaaga gtattggaga 780
aaggaaaaaa ctcaatgctg ttcacagaat ctgtatgtcc atacaaagta catctgcatc 840
tttcactatt aacatcccaa attttgctag ttttatccag tgaggaggaa gccacaaaat 900
tgccgcagga gtgccatgtg caggaccaca ctgcgcggct gtgtccttca aaggtcaaaa 960
tgcaatcgcc tgtacataga tcccataatt taactgtagt gtcaccactt gaagtagcca 1020
atttgtcgcc atagagcttc cagcccagtt gttccacttc tgtgtaaatt cagctgcagg 1080
atacagcctc ctgatgtccc gggaaacact caggtggcag gaggctgcac atgaccccac 1140
ccacttttgc ggcacgag 1158

<210> 2311
<211> 754
<212> DNA
<213> Homo sapiens

<400> 2311
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ccagctaaag ggaaaaaagg aaaaggccag ggcaagtctc atgggaagaa acagaagaaa 120
ccagaagtgg acattctcag ccccgcggcc atgctgaacc tctactacat cgcccacaac 180
gtcgctgact gcctgcatct gcgaggcttc cattggccgg gtgctcccaa aggaaagaaa 240
gggagaagca agtgacagca tttcacaaca catctctgtt acagacaaca ggacctgggg 300
aagagaagtc aggataacac aactgttgcc agcaacatag actttactcc agacgacttg 360
agatgcaaat taagtgtgct tttctgtgat ggtggaagat caggaaatgc accttacttc 420
ctctgttatg ccagatatgg ttagccactt tggtttttta ggagctatag gatgggaaaa 480
gcctgagtaa ttcctacaca gtgtgctgaa attaatagaa ctttcagaaa ttattataat 540
tctgggtcag gattaaactt tgctctcaga aggcagttct agttgcatta attgttttct 600
tttgccaaag agcgtttgtc atttagagaa gacacggcaa gaaacactgg gtttccttag 660
gaacattcct ctcttgggca ccatttcctt ttttttttt aatggaaaat aataaatact 720
ttgtttctat aaaaaaaaaa aaaaaaaaaa aaaa 754

<210> 2312
<211> 2908
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1616)
<223> n equals a,t,g, or c

<400> 2312
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aagatgtcac tcaggtggcc ttgtttgatc aaaacgcctt ttttaaaaac caagctttaa 120
aaacatgttt ataatttcat gaagtacata tatattgttc ccatagtctt cagctttaaa 180
actataaata tgcccaaatt ttgttatttg ccctacttta agtaggttta ttgtgtttgt 240
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aattctttct cttgtagcat gaatcaaatg tatttattaa tagcacttat gactatagaa 360
tataatttgg catatgattc atattacata tgtattcrtt ttatttttaa aatagtttat 420
aaacttaatg attttttttt acaaatgagg ttatagatat taatgcaaat tttctggtag 480
gtatctcttt ttttgctatg atgattccaa cttatcagag acctcccatt tgccttttca 540
ttacggtgaa agctttgccc tcatctacta aagtacaaag gaattctttg gaagcagatt 600
attctagtct tatgctagag atgaatttga tcattttaat gtgtgatctt tttgctctat 660
caggtataat tgttttcctt tcctttataa tgcgtaagtt ttctcacctt tgagtaacag 720
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Page 1325 of 1325 - 09/30/2004 - 09:30:00 AM

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Docket No. 95-0468.50

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<212> DNA
<213> Homo sapiens

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<210> 2323
<211> 1104
<212> DNA
<213> Homo sapiens

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<211> 1803
<212> DNA
<213> Homo sapiens

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<210> 2325
<211> 1610
<212> DNA
<213> Homo sapiens

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tgtcataaca gttaacattt catatttgcc aaacatgaat ggcttatgca tattaacaca 180
tttaattctc tcaaccattt tatgacgtct gaggccactg aagcagctag aggttaaacc 240
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<210> 2326
<211> 1228
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (636)
<223> n equals a,t,g, or c

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ggttggcagt tgtctgccac ggccccttac ttgtttctgg ggaagacatt cgaggtactc 480
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<212> DNA
<213> Homo sapiens

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<222> (293)
<223> n equals a,t,g, or c

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<210> 2328
<211> 1131
<212> DNA
<213> Homo sapiens

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<211> 1133
<212> DNA
<213> Homo sapiens

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<210> 2330
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<212> DNA
<213> Homo sapiens

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<222> (9)
<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (41)
<223> n equals a,t,g, or c

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cc 962

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<211> 950
<212> DNA
<213> Homo sapiens

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<210> 2332
<211> 1325
<212> DNA
<213> Homo sapiens

<400> 2332
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<210> 2333
<211> 2301
<212> DNA
<213> Homo sapiens

<400> 2333

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<211> 2057
<212> DNA
<213> Homo sapiens

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<211> 1927
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<210> 2337
<211> 1943
<212> DNA
<213> Homo sapiens

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<211> 1479
<212> DNA
<213> Homo sapiens

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<210> 2339
<211> 538
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<210> 2341
<211> 2025
<212> DNA
<213> Homo sapiens

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<210> 2342
<211> 986
<212> DNA
<213> Homo sapiens

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ctcaaaaaaa aaaaaaaaaa aaaaaa 986

<210> 2343
<211> 627
<212> DNA
<213> Homo sapiens

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<210> 2344
<211> 1220
<212> DNA
<213> Homo sapiens

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atgtctgcat aagtattgca gtttctttaa cccaacaagg tgtgattgca tttattcaca 180
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ttaaaaaaaa aaaaaaaaaa 1220

<210> 2345
<211> 657
<212> DNA
<213> Homo sapiens

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acaaaaatta gccgggtgtt gtggtgggtg cctgtagtcc cagctactcg ggaggctgag 540
acaggagaat ggcgtgaacc cgggagrtgg aggttgcagt gagccaagat tgtcccatmm 600
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<210> 2346
<211> 1026
<212> DNA
<213> Homo sapiens

<400> 2346
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gctttttgta agaagcatgt attgaatttg taatcattgt aaagggttta aaaaatggca 180
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cactccagcc taggtgacag agcaaaaccc tatctcaaaa aaaaaaaaaa aaaaaaaaaa 1020
ctcgag 1026

<210> 2347
<211> 1535
<212> DNA
<213> Homo sapiens

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cactcttagc atttcaagat aatgcatgca ctcagttccc aaagtgtatt attgcttctt 420
gaaactcctc tttgatctgc tgaaagtaat gatggctacc atcttaaaca gaccctaagg 480
ttgagagtaa acatataaat ttgaaagctg tttattgata tattgattat cagtggtcac 540
ttacctatca gtgaactttg gtagtgacac atacagactg gtatttataa cgtgcaggca 600

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aaataagtac tgtgaccttg aaagattttt ttttttttt tgagacttgc actcaaaaga 660
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<210> 2348
<211> 1242
<212> DNA
<213> Homo sapiens

<220>
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<222> (14)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (15)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1016)
<223> n equals a,t,g, or c

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tggaattttc attactaatg atgcccctgc ctgtggtcat tcctgcctgc ctcttgatgc 540
acacaggcac gcatttctgc tgggtatgtc ctagttccag actcactggt tatacggtat 600
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<210> 2349

<211> 633
<212> DNA
<213> Homo sapiens

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tgaacccagg aggtggaggt tgcagtgagc tgagatcgca ccactgcatt ccagcctggg 180
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ttatatctat taaaactcaa gagggaattt ggttgcatat gaaaggactt aggtattata 540
aagggttaga tacttggaag aactgcaagt ttaataagat gctgaaataa gttgccaaca 600
gaaatgttgg ttattaaaaa aaaaaaaaaa aaa 633

<210> 2350
<211> 422
<212> DNA
<213> Homo sapiens

<400> 2350
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taaggaccat ccttctgtgt ccccagaaaa ttaaatagag tcagaaaatg gcaaagccaa 360
gttagaagca ttcaggtgtg gaagttgtat agggcacttg agttaaaaaa aaaaaaaaaa 420
aa 422

<210> 2351
<211> 535
<212> DNA
<213> Homo sapiens

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<222> (11)
<223> n equals a,t,g, or c

<220>
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<222> (13)
<223> n equals a,t,g, or c

<220>
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<222> (162)
<223> n equals a,t,g, or c

<220>
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<222> (422)
<223> n equals a,t,g, or c

<400> 2351
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acctggtkgg gaggtaattg aatcatggga gcccagtctt tncctgtgct gttctggtgg 180

tggtgaataa gtctcatgag atctgatggt tttataaagg ggagttcccc gatcatgctc 240
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<210> 2352
<211> 2259
<212> DNA
<213> Homo sapiens

<400> 2352
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Page 1347 of 1369

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Application Number 09/756,950

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<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<211> 1913
<212> DNA
<213> Homo sapiens

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<211> 1989
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<212> DNA
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<212> DNA
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<213> Homo sapiens

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<220>
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10254.5600.US50

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Page 1374 of 1500

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<212> DNA
<213> Homo sapiens

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<211> 1904
<212> DNA
<213> Homo sapiens

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<211> 1918
<212> DNA
<213> Homo sapiens

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<400> 2406

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<211> 2196
<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

EFS-Web Page 4 of 5

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<211> 1447
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<210> 2419
<211> 3003
<212> DNA
<213> Homo sapiens

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<222> (1814)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1827)
<223> n equals a,t,g, or c

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<211> 1524
<212> DNA
<213> Homo sapiens

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<210> 2421
<211> 1842
<212> DNA
<213> Homo sapiens

EP 1 574 586 A2

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<210> 2422
<211> 1895
<212> DNA
<213> Homo sapiens

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<210> 2423
<211> 1641
<212> DNA
<213> Homo sapiens

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aaaaaaaaaa aaaaactcga g 1641

<210> 2424
<211> 1807
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<211> 1293
<212> DNA
<213> Homo sapiens

<220>

EFS-Web Page 39 of 59

<221> SITE
<222> (1214)
<223> n equals a,t,g, or c

<400> 2426
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<210> 2427
<211> 2068
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (139)
<223> n equals a,t,g, or c

<220>
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<222> (2017)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2029)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2034)
<223> n equals a,t,g, or c

<400> 2427
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09/30/2004 09:54:20

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<211> 389
<212> DNA
<213> Homo sapiens

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<211> 2027
<212> DNA
<213> Homo sapiens

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<211> 1345
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

<220>
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<223> n equals a,t,g, or c

<220>
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<222> (1344)
<223> n equals a,t,g, or c

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<210> 2431
<211> 1093
<212> DNA
<213> Homo sapiens

<400> 2431
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aaaaaaaaaa aaa 1093

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<211> 1300
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1086)
<223> n equals a,t,g, or c

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<211> 798
<212> DNA
<213> Homo sapiens

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<210> 2434
<211> 1050
<212> DNA
<213> Homo sapiens

<400> 2434
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<210> 2435
<211> 1040
<212> DNA
<213> Homo sapiens

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<210> 2436
<211> 2364
<212> DNA
<213> Homo sapiens

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<222> (65)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (89)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (134)
<223> n equals a,t,g, or c

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<210> 2437
<211> 524
<212> DNA
<213> Homo sapiens

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<222> (4)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (37)
<223> n equals a,t,g, or c

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tacacctgga tttttccaaa caacttttat ttcctcagag tcttccttaa tcctatggaa 420
caagaagctg ccactgaata gggcccagta taggggcttg cttttctact ccctcccccc 480
aatataaaaa tatagacttt taaaaaaaaa caaaaaaaaa aaaa 524

<210> 2438
<211> 711
<212> DNA
<213> Homo sapiens

<400> 2438
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tgaacttcct tgtattcttt gttctgaaat gcattttgtc tagtataaat atagctgctg 240
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aatgattcca ttgtttttc ttccttgatt tattagctgt acctcattgt tttattatct 600
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<210> 2439
<211> 1992
<212> DNA
<213> Homo sapiens

<400> 2439
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aaatatccct gcacttaaat gcagtagacg ttgtgccatc ttcattctgc gtcaagcact 480
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aaaaaactcg ag 1992

<210> 2440
<211> 1161
<212> DNA
<213> Homo sapiens

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aatcggctag cccaggtgaa gaggaagatc ctggtgctgg atctggatga gacacttatt 240
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<210> 2441
<211> 1255
<212> DNA
<213> Homo sapiens

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<210> 2442
<211> 2204
<212> DNA
<213> Homo sapiens

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<210> 2443
<211> 1409
<212> DNA
<213> Homo sapiens

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tctaaaccct cttattaaaa atatgatatt taaataacat agtaaacaca tgtaaaaatt 1320
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tttctaagaa aaaaaaaaaa aaaaaaaaa 1409

<210> 2444

<211> 2389
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (314)
<223> n equals a,t,g, or c

<400> 2444
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tccggtgcaa aggatggctg gcaggcatgg ggtttgctct gtataaggag ggagagcaag 240
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tcaagacatg ggccagccct gtggtcamcc ctggtgcccg agtgaytttc aattgctcca 480
mcccccacca gcatatgagc tttattcttt acaaagrtgg aagtgaaata gcatccagtg 540
acaggtcctg ggcaagtccg ggggccagtg cagctcactt tctaatcatt tcggtgggca 600
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gcgaccctgt ggagctcgtg gtgacagaat tctaccccaa acccactctc ctggcacagc 720
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gcattcccca tcaccaatat atctggtact agcatggggc gttacagctg ctgctaccac 1200
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tctgaataaa aagagtattc actatttaac ttcaaaaaaa aaaaaaaaa 2389

<210> 2445
<211> 1338
<212> DNA
<213> Homo sapiens

<400> 2445
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tgtttacata tcatccttgg ctcttttctt ctcataatat ttactgtctg tatgtttata 120
ggaaaaggtt tgctttagct tatgcataga caattatttt aatgtcacta ttaaaaacaa 180
taatttctta atagtttaaa tatcacattt acatagatta atttccaatc atgcatattg 240

ttttgtacca ctactatttg ttttgttctc tcatctgttt attcctgtgt caatactgct 300
cttataatac ctttgtgtac atttaaaacc ttgaaaagca aattactttt cattatttac 360
tttcaaattt tttctaggaa tttcccatgc atttatttt tacataaagt ttagaaaaaa 420
aatttccact ttaaaaaact gagatcctga ttactgttat agtaagatga catatcggtt 480
taaataaaat tggaaatatt gtgatattaa aagtcttcca atccagaaac atgctatgtc 540
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taggcctact aattttaagt taaatttaat ctatgatatt ttgtagtttt tactactttt 660
taaaatgaga ttttcctttt gcatacctat ttctaacatg aaattgttag cattaaaatc 720
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aaaaaaaaaa aaaaaaaa 1338

<210> 2446
<211> 1081
<212> DNA
<213> Homo sapiens

<400> 2446
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atgtagtccc aacagagtgg cttgctggga ggagggagat actttcaga taaggcacta 120
gcacttcatc ctaacaactt ctccatactg aggcaacatt tttaaataca cagagaatgc 180
ctaggattca attgttgaga aaaattgatg taagtctgtt tgtctcaaag aaagctatca 240
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tttttagcta attaatttat tatttctgcc catcagccaa cgagtggata aagaaaatgt 360
gatatatatg cactatggaa tactaagcca taagaaggaa tgaaataatg gcatttgcag 420
caacctagat ggagttggag accattattc taagtgaagt aactcaagaa tggaaaaaaa 480
aatatttgga attgaggtat ctaatagaga actgagttaa attattgcca cttaaaaaca 540
caaagtgata tagccacttt gtgaattaat cagtcagcag tggctaggtt atgcttagtg 600
gtttataacc aaatcttagt ttataacaac aaatgtgtat tgttaattcc cactacaagt 660
ttataacgac attgctggat gctacactcc atgtctcttt gtgggaccca ggctcatggg 720
acttctgtta tctgcattag agagagagaa gacaacaaaa tatgcactgg ttcttgaagc 780
tttggcccag aagtaaaata tgtcttttac ctgttcacat tgcattgggc cagggcaatt 840
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aaatgaaaac atttggtgaa gagcattaat gactgtcttt acaggaaaaa agcaatcaaa 960
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ccccagtttc ttattactaa aataaaataa tgataaagat gaaaaaaaaa aaaaaaaaaa 1080
a 1081

<210> 2447
<211> 1877
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (854)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1422)
<223> n equals a,t,g, or c

<400> 2447
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atttagctta ttataaggag aagttttcta attgttagaa tttacatatc tgtggaatga 120
ggctatttgt caaactagag agttcttttt cccttaaaga tgtatagtaa gagcagtgcg 180
aacatctcac aagggatgtt agatattctt ctgtggatag atcttgcaca tgatgacctc 240
ctgggctctc ccagccctgt gattctgaga tcacatgccc attcaggaat cctcactgtc 300
tagacccatc cactaaaatg aatcatcatc ttattcacat ctaagcccca ttacmagttt 360
attagtatca tccctttcag tggaaatgcg aaatatttta ttcagttatg ctaatgtaat 420
tagctcataa tgtcaaatgc ttgagaagtt gaggttgtag ttctgctggg tatttgtttc 480
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ccgagatcat gccattgcac tccagtctag gcaacagggc aaaactccat ctccaaaaaa 1860
aaaaaaaaaa aactcga 1877

<210> 2448
<211> 1352
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1333)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1341)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1350)
<223> n equals a,t,g, or c

<400> 2448
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aatggaatta cacaatatgt gcttttggtg actggctttt ttcactttgc atgttttcaa 120
ggttcatcca tttgtttggt gttttaaatc ttatgtggtt gagtttggtt tcatgtcagt 180
gtttatttgc cttttgtttt caaagataag accacttaaa ttattagatt atttgaattc 240
tccttaagtt ataagtctgg tcctgctata tcagttatct aagtatttag aaatggtaga 300
ctaggggacc taggtttctt aaacttttct ctcttttact taggtgtgca atatgaataa 360

aatatcagta gatttgtatt ttagaaaatg ggggatacaa gattggggac tttattgaca 420
catttaattc tttcatgtgt aaaattactt atgtgaaaat gtgattttct tgttttttcc 480
ccagactaaa aagtttttgt taattattat gagtatttct atagttggct gtttttacct 540
ggcaagaatg cttttctgct cagatgaaga gataaaggca ttaggcctgg gatggacatt 600
tctgagtgaa ttaatgttgg attggtattt tttttatgag tggaagagac aaactatctt 660
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gaataaagtt ggttttattc catttaaagt agttttggta tttctttgct ccataccaaa 1260
gtcttcctcc cccaaaataa acaagtgaat tagaaccaaa aaaaatcaaa aaaaaaaaaa 1320
aagggsggcc gcnctaaggg ncccagcttn cg 1352

<210> 2449
<211> 773
<212> DNA
<213> Homo sapiens

<400> 2449
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agatttgaac tcagatgcat gaattcttaa tataagttcc atgattaagt ttcagtagct 120
atttgggaac tcagtcatgg ggaaaccacc aactcatgaa gcaatccatt ctgttgtaaa 180
atggctacta attgttacaa aattgttacg tttgagtcag atctgtttcc ttttgtttcc 240
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aacagctgaa ttttttatat tcaacataca ttttataatc agaaaaataa tatatactat 360
ttcttaaaaa ttagttttgg ggctgatgac aaacatattt ataagtcaca tatttatttc 420
tgaaggtttt aagtgagtaa acctggactt taaaaaatgt tgggccatgt gtggtggctc 480
atgcctgtaa tcctaacact tggggagggt gaggagggag gattgcatta atccaggagt 540
ttgagaccag cctgggcaac acagtgtgac accttgtctc tacaaaaaac taaataatca 600
gctgggagtg gtggtgcatg cctgtagccc ccgctattaa ggaagctggg atgggaggat 660
tgattgagcc cgtgaggttg aggctacagt gagctgtgat cgtgccactg cactctagtc 720
tgagcgacac agagagaccc tatttccaaa aaagagagaa aaaaaaaaaa aaa 773

<210> 2450
<211> 1667
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1659)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1664)
<223> n equals a,t,g, or c

<400> 2450
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agtggagcgg ctgtcgcagt gcggctccgg cagtggcagc ggaggcctgt gtttgcggcc 180
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tgcgggtcgg cgaagccagg agaccaccga ggagtttaat cgagagatgt tctggagaag 360
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tcagcttcca ctgccgtctc cacaggaaac ccagaagttc tgtgaacaag tccatgctgc 480
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aaagctggta cggggcgcca ccctggacat cgtggatggc atggctcagc tcatggaagt 600
actttccgtc actccaactc agagccctga gaacaatgac cttatttcct acaacagtgt 660
ctgggttgcg tgccagcaga tgcctcagat accaagagat aacaaagctg cagctctttt 720
gatgctgacc aagaatgtgg attttgtgaa ggatgcacat gaagaaatgg agcaggctgt 780
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atgatttctc attcctgagt catttctcag agattcctag gaaagctgcc ttattctctt 1560
tttgcagtaa agtatgttgt tttcattgta aagatgttga tggtctcaat aaaatgctaa 1620
cttgccagtg attaaaaaaa aaaaaaaagg gcggccgcnc tagnggg 1667

<210> 2451
<211> 1241
<212> DNA
<213> Homo sapiens

<400> 2451
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caatcaaatg tacttttaga agagcaatag aaaaatgtat actaaacaaa cttaattcaa 120
ccaacccctg tactatgcca tgccataact acctcatagt gtggttgtta gatcagataa 180
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tggttagaga ctctttgatc ctttgcattg tatgacagtg tgttgtacat tggttaaaca 780
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aattttaaaa ataattaaat cattttaatc aattaaaatg attgwggctc ccacctgtaa 960
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acacaaatta actgggcgtg gtacctgtgg tcctacgtgc tcaggaggct gaggcaggag 1140
gatggcttga gcccaggagg tcaaggctgc agtgagccgt tattgcacta ctgcactcca 1200
gcctgggtga cagaatgaga ccctgtcttc aaaaaaaaaa a 1241

<210> 2452
<211> 1054
<212> DNA
<213> Homo sapiens

<400> 2452
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ctggtttggg gactggaggg ctggcagcag cctgtcaccg tgcgaccgtg accacctggc 120
atgggcttcg tggcctgctc tcaggaagtg ggtcaagccc tgggaaccct catccatgag 180
agctcgatcc cgtatgaagg gtgctgccgc ccgtgccatc tggcccgggg gtgacttttt 240
gaactgttta ttatatggtg gatgatgatt tcatctcacg tgctggacgc tgttctgttc 300

agtgtgctct ttggactaca ttagtcccct gtggagcagc agggctggag atctctgcag 360
tcccttcccc gcccgccctg ccagaaggcc aaggaggcac gtggagggcc tccttcctgc 420
aattcttccc tctccagagt cagggagggc tgcccagccc tggcctcaca gccgtcccag 480
atgttaggtg agccactgag ctctgtgttg accttgaggg gcctggctgg gggcccccag 540
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gactattatg ttggccttga acggggactg cagagccctc agtttgtctc ccttgttcct 780
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gcacagatgt ctccccagag cccagcgctg gcagaatgga ttctgctcct ggctttgctt 960
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa 1054

<210> 2453
<211> 1560
<212> DNA
<213> Homo sapiens

<400> 2453
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aagatgcatt tttagtaata atctgttagt ctaagaaaag tggtaacagg aaaagccaat 120
aatttattac gctttgtttt ccatgtcatc ttggttacta gtttatattg gttggcttct 180
ttcctccctg tagggaaaag taatagaacc tctgaaagat tttcataaag atgaagtgag 240
aattttgggc agagaacttg gacttccaga agagttagtt tccaggcatc catttccagg 300
taaaaattag aactgaattt tgtttgattc atctttagac cttcatgttg aagaaaaatc 360
aattcagaca attctgaaat aatctgtcat ctcagggaat atgtaacatg agagaaagga 420
aaggatggtt agggaataat tgaaatcttt tgagtatcta ctgtatttac ttcattttat 480
taaatactca ttttccattg tatctgcatt taagtgttac attatccttg ggagtctggc 540
atctgatgtt gccatcagat gagaaaacca agacataaag atattttaat aatattgcca 600
cacagtccta gtagtagagc taggatttgt tatattattt gtaccatacc gcagtgcgtt 660
ccatggaaga tgtgaggatt taaatttagc tctttaaaat ccttgtccta tgtctgactt 720
gtttgaatgg atgaaccact tattctgtgc agagaattct tggcacaatg taactaattc 780
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gcactctgct aaatacattt tattgtctta tttaatcttc acagtggaaa ctactattat 1080
cctgttttac agatgaagaa acttagggac agcgactaat ttgccaaaag ttatgcagat 1140
tgaaaggagt ggagccagaa tgatatcccc aataattttt atctcagagt ttatactctt 1200
aatgatcata ttggctccat aaacagcttt acacatgtat aacctatgtg gtgattagca 1260
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gaaaaattag ccaggtgtgg tggcatgtgc ctgtaattct agctactcgg gaggctgagg 1440
caggagaatc gcttgaaccc gggaggcaga ggttgcagtg agacaagatt acaccacagc 1500
actccaacct gggcaacaga gcatgactcc atcttaaaaa aaaaaaaaaa gggcggccgc 1560

<210> 2454
<211> 1390
<212> DNA
<213> Homo sapiens

<400> 2454
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gaagctaact gaagagtcct tgacttctga tgctgcaaat gataatcaca ttgtggctga 120
aggggtgtct gaggagtctc tgaacagact gaaaggtgct gttagctttg gatatggcct 180
ttttcacctt tgcatatcca tggtgccccc aaacctgctc aaaatcatca acctgctggg 240
ttttcctgga gaccgcctac aggggctttc ttcactgatg tatgcaagcg aaagtaagga 300
catgaaggcc cctttagcta cattagctct gctctggtat catactgtag tccgcccgtt 360
ttttgccttg gatggcagtg ataacaaggc aggcctggat gaagctaagg aaattctcct 420
taaaaaagaa gctgcttatc caaattcttc cctctttatg tttttcaagg gacggataca 480

acgactagag tgtcaaatca acagtgcctt gacatctttc cacactgctt tggaacttgc 540
agtagaccag agagaaattc aacatgtctg tctgtatgaa attggttggt gcagcatgat 600
agagctcaat ttcaaggatg catttgattc ctttgagagg ctaaaaaatg agtccaggtg 660
gtcccagtgc tattatgcct acttgactgc agtttgtcag ggagccactg gtgatgtgga 720
tggggcacag attgtcttta aagaagttca gaaactcttc aaaaggaaaa acaatcagat 780
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gacccggaac acccgctccg tccctcccca cccagggtcc gcactttaaa ataaaagcag 1320
aggacaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1380
gggcggccgc 1390

<210> 2455
<211> 1472
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (55)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (961)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (973)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1464)
<223> n equals a,t,g, or c

<400> 2455
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cacccagtct ggtttgactt tcagtgacac ttttacttct tttaagtgca taaagtaaaa 120
aatactaaga taaaggacgc aaattaattc ctaattaaca tatttatagt ttggaaaaag 180
tgctagaggt gcttgccagt tcaatttaat tccatgccca gaatgtggtt tctgtttatt 240
gaaatgttct tagttttggt catctgttac tacttgctgt tgtcttcacg gggccctgac 300
tggccttggc ataactaggc tgctagggga atagttctta gagagtcatt ttatgtattg 360
gatttwattc tgatttgttt tctctctgaa agctggttgt tatttgtttt tttkwkkktt 420
ttttcgatct taggtggtgg ttgacacagc acagattgag aataaagaag cctatgcccc 480
ccagatcagt ttagaaggct ctagaatcgt ggttcaagtc ccatccacat ggtaacgtgc 540
ctcttacttt caccggagcc taagctctga ctgacgtttg cacatctttg aaatgatggc 600
cttgttttga acaatgccca tgctagctga cgcaacaagt cttgctgcat gtgcaggttt 660
atgggcagca gtggtatgtt agtggcatgt gtcatgatta ttggtctgtg atgaggaagc 720
caagaagtct gaaaaatggt ctcattgacc ataatgtaac taaaatgtta tatactcttg 780
gatcataatg agcagtatta tctttgttac tgagtctaca gcatttaaac atagtatatc 840
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ctctgttcca actacaatcc tgatgatcty gagctcatgt tgtgacacac ccagtgtctt 960
nacaaatctt ggnacagtca tttttagata ttatatttgt amcacttata atagataaaa 1020
gattattctt aatttatttt tttttaaaaa aagctcctac aaatcagaag aaaatgggca 1080

agggacatga acagctaagt cagaaaagaa gacatatgat caacaaatag attwagraaa 1140
tgtaatggcc magtgcggtg actcacacct gtaatcctag cactttggga ggccaaggtg 1200
ggcagatcgc ctgaggtcag aggtttgaga ccagcctgcc caatgtggtg aaaccccatc 1260
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caggaagctg aggcacaaga attgcttgaa cccaggaggc ggaggttgca gagagctgag 1380
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aaaaaaaaag ggcggccgct cttngagacc ca 1472

<210> 2456
<211> 893
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (859)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (875)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (884)
<223> n equals a,t,g, or c

<400> 2456
gaatagaagc aagggacata atgaaagagt caaaaaggga aaagttttaa aacaatactt 60
ggcttactct gagcatagtt tccccctttcc ttaattaacg cttgctcata tattactcag 120
aaagtccaag tgtaggcttc agaggagagg agccatagat agctttcatc agattcttga 180
tgaaacccac agtacaaatg ttaagaaaca cagctctgtg gtatcatctg ttgactgatc 240
tgctgctaat ctatttaata ggaagagttg tttctatatc cttctacttt taccattaaa 300
gaaaaagtaa tcaactagtc actgttcatt ttatttttcaa atttatttttt gcttaaatca 360
ttgcagaatc agaaaaaaat ttttattata ttgtttctga aatgttaaca tttaggtgaa 420
atgcttaatc aggttgagta tcacttacct gaaatgcttg ggaccagaaa tatttgggat 480
tttttcagat tttggaatat ttgcatttat atgcttagta tttgaacatc ccaaatctga 540
aaatccaaaa tgttccagtg agcatttccc tttggtgtaa catgaacact gaaaaagttt 600
cagtttttgt agcatttctg atttttttgtg ttttacgtat gtatatgtat atctgtatct 660
tgtttttttg tttggttgtt tgagacagaa tcttgctctg tcacccaggc tggagtgcag 720
tgagctgaga tcaggtcact gcactctagc ctgggcgaca gagcaagatg caagactctg 780
tccccctcca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 840
aaaaaaaaag ggcggccgnt ttaaaggatc caagnttacg tacncgtgca tgc 893

<210> 2457
<211> 1066
<212> DNA
<213> Homo sapiens

<400> 2457
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ttgaactctt gaactcctga cctcaggtga tccacccgtc tcagcctccc aaagtgctgg 120
gattacagca tgagccactg gccgactttt gcttccttta cagattactt tgcagattga 180
catccaggct ataccttgt ttatgtgagc gaggctgtgt tgtaggcact ggcactatac 240
ttacacagaa gttggcaact tctcattgcc ttgcacaaat gtggataata gtaataacaa 300
actaatgttg aatgattaga attttaatca gttctttaaa agtagccatt attttggcat 360
gttaggtagg gagagattca aattatttat gttatcttcc caacttgaga atggcattat 420
tagatcaagc cattagactt atagattgcg gaagatttag atgtacttct taattatgaa 480
aattacattt accttactca aataacccca tatataccta aaagttttaa taaactaaag 540
catgaccaca tgactcaatc agctgtccgt aataacctgt ggtataggta ggacttagtt 600

gggcaaaggg tgagatgtgg ccatcttcac gggctcataa gagataacca aggtcccttc 660
aggtcggcca gcctcatcat gcctcagctc tttctaatcc tgcttattag taaggtggat 720
gtttattcat ttatttattt ggttagttaa ataacaggcc gcaatttact gtgttactta 780
aatttttactt aagtaaaatt taagaagaag aagaagatga tgactgtaaa aacaaaggtg 840
tgaatatatt tagctataca tgagatagga tatcaaatac ataaatagtt caatttgcag 900
ttgcacagtg ccatttcacc caggttaaac aataggaaga ctcgatgcat acgtgtcatc 960
tgtaaatgct ctcatgtgaa agaaattgtg aagtaaaata aagtatcttg agtagaaatt 1020
tttctacatt ttctcaaaat aaaaaaaaaa aaaaaaaaaa aaaaaa 1066

<210> 2458
<211> 1436
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (449)
<223> n equals a,t,g, or c

<400> 2458
tcgacccacg cgtccggcct cagccgaagc cctcagccct gcggtccggg gcaggagaca 60
agcccagagg ggctgggtgc agcagcctgg cactgccatc ggggcctcca cctgacgccc 120
tcacaccagc ccatgtcttt cagctgtgca tgcgcaggct ctgcctctgt cttcttcctg 180
ttctgtgtgg cccagccccct tcctggaacc aggcagccct ggcaggagtg agggccagct 240
gcagggaaag tgaaggggggc aacacctgcc aggctgtggg tctcacgagg ctcgggggag 300
ttataagagg ccccctctct cagggaactc ctcccaggct tggggaggag gcatcctgga 360
cccagccacg ccccacagat ctgaccgaag caggggttct tggtcttgct tggaacccag 420
attcagcccc ctttgggaat ctaatcaang gtgtggaccc tttcccagag aaaatggtgt 480
gttcactcct gagggtccat gggcccttga agctgctcat ggctcccctg ctgcaggatt 540
cccctgggtg cccgtcaaac tacagcttcc ctgggggccc tccaccccat acttacccac 600
cagcttctta agagttcgag ctcggaccct tatagtagta aacaggctcc ccagagcctg 660
gtggcctttc tggggccacc cggcagcctg catgggacac ccatggcctt gtctcctccg 720
gccccagctc tcttttccag ctcagccaag gctgatggcg gaaaagagca gctgacgtac 780
gagtctgggg aagacgagga ggatgaggag gaggaggaag aggaggagga ggacttcaag 840
ccatccgacg gcagtgaaaa cgaaatggag acagagattc tggactacgt gtgacagggc 900
ccaaggctgg gcctccctga cccggccaga ctggtgtctg gcctaatgag ggagccgggg 960
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ctctggtcct gaggggttag ggacatcccc aaagggtata ccctggctct gccacccatg 1140
aaccagccca gcatccagcc agtgagtggg cacccaatgc ctctcaggat gagaccagta 1200
aatgccggag gtggagctgg gcagctgtgg agccccaggc cacaggccag tctcgcttgg 1260
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agaagtgcct ttagctctgg atcccaaccg tttggcacag ctttggccac agccaggccc 1380
ctctggaatt gtccttatta aaccagtttc ccgagaaaaa aaaaaaaaaa aagggc 1436

<210> 2459
<211> 684
<212> DNA
<213> Homo sapiens

<400> 2459
ggtgctcggt caagatcatg ataaaccgct ggaaagggag aagaagttaa ggtagtacta 60
cagacagaat cttatacttt ggaaaaaaat tcatgacaaa gaaaccccaa agtattgcct 120
gttccaccct gtctttgtgg tgtgtgtgcc tagcttccat tattcatgaa gtcaacctag 180
aagggcagac tggtaataac atgagttggt acattcttcc tggcaataca taaagacctt 240
taatgtctta aattacttat cctagtaata ttacttcctg gaatctattc taacgartaa 300
tcagaaattt taacaggaat ctatgcatta aaatgttcat ggaaggaaaa tgatcagcaa 360
tgaggaataa ttaaacgaga catatataaa aaaagcaacc cacaattttt tttcaagcat 420
ggagaaatgc tcatgcgaga atactaagta aacagcagag aaactcagac atacatggtt 480
gcctctgagt agtgaacttt tatttccttc ctaaattttt gtatttttaa tctcttctat 540
aaatgaatgt gtattccttt tacaatgaaa aataacattt ttaaaaacta aaactaaaga 600

aatgtattgt ttccttttat gtataaatgt cccaagccaa gatacctgaa atataacgag 660
gaaaagattc ttttgttcac tctg 684

<210> 2460
<211> 1851
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1171)
<223> n equals a,t,g, or c

<400> 2460
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tgttctgttt atttatatgt ctgtctttag gacagtacta cacagttttg attcccctgt 120
tgtaggggaa tcttgtttta ttgtgcttca ctttattacg ctttgcagat aatgcattgt 180
ttacaaatgg aaggtttgtg gtaaccttgc atcaagcaag tctattggca ccatttttcc 240
aatagcatat gctcactttg tgttcttatg ccataatttg gtaattcttg caatgttttc 300
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taccggcacg atcatagccc gctgtagact caaactcctg acctcaagca atcctccctt 540
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ttattcttat atatgttatg ggaatgtgac tagtgatctt tgaagatact attgtaactg 660
tttwgggggc accataagcc atacccatgt aagacttgaa ctgtgtattc cagtgaaagg 720
aagagctgca tgtctgtcac tttaaattaa aagctagaaa tgattaagtg ctgtgaggaa 780
agcatgtcaa aagctgggtg agttaggtca aaagttaggc ctcttgtacc aagtagttag 840
ccagcttgtg agtgtgaagg aaaatttctt gsaggaaact aaatgtgctc cttcagtgaa 900
cagtcgaatg ttaagaaagc gacacagggt tattgctaat atggagaaag tttagtggtc 960
tgggtagatc aaaccagcca caattttccc ttgagccaaa gcctaatcca gagcaaggcc 1020
ctaaatctct tcaattcttt gaaggctgag aggaatgagg aaactgcaga msaaatgtkt 1080
saagctagca kargttgttt catgatattt gaagaaagaa gctaccatta taatatgaaa 1140
gtgcaaggtg aagcagcaag tgctgacgta naagctgcag caagttatcc agaagctcta 1200
gctaagatca ttgagaaagg tggctacact aaacaacaga ttttcaatgt aaaccaaaca 1260
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agccctactg ctcagaaaaa aaagactcct ttaaaaatat tactgctctg gctcacgcct 1560
gtaatcccag cactttggga rgccgaggcg ggtggatcat gaggtcagga gatcgagacc 1620
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ggtggcgggc gcctgtagtc ccagctactc gggaggctga ggcaggagaa tggcgtgaac 1740
ctgggaagcg gagctttcag tgagccgaga ttgcgccact gcggtccgca gtccggcctg 1800
ggcgacagag caagactccg tctcaaaaaa aaaaaaaaaa aaagggcggc c 1851

<210> 2461
<211> 1693
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (997)
<223> n equals a,t,g, or c

<400> 2461
ctcgtgccgc agcagtgttc aatttgctca ccattggtag tgtttgctaa aattgtattt 60
ttttaagcta agtaacatgt actgggttga gaacctttt ccccccctctc cctctcagaa 120
aattgcttta taaaattgct ttataatttg attttcttac tgaaacgcat ggtggtgtct 180
aggtggggaa ctgactgata acccttggca gcaatcaaag tgccagtggc tcctcgatgt 240

ttacattttt ttctattttg ttcagtcttt tgttttaaat gattctaaag agattaaaga 300
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gtgaatgggt gtacatgtag gaacctgtag ttcagcaaag ctgcgctggg cacagcatgc 420
ttgtacttga ttgacaaaat cgtgtttgcc agtccacttt ctatttttcc tttaagtgat 480
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cagcactttc ttcttcatct ttccatttac tgatatttgg gggaacaggc tatcaaaggt 600
tccggcttga agggaactgt cactaccccc tctaggaagt tattttatgt agcatgtttg 660
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ttgtgttagc ttttctggtt tatktcatag tttgttcttg ctatttatta agaacagaat 780
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gactaaacct ctaatttcat gcaaatcttt gttagcttat tctaagaaat ttattaagta 900
aaacaaagaa aaaacagaag tgggagatag ttattttgtg cgtaattttc tttaaatcat 960
tttgaatgat gtgaaggcat tcagtttgct gtatttnttt taatcacttc atacaaggaa 1020
aacttcgaca tttacatttc tasatgtagt aacagtctac tttgatatat gagtatttaa 1080
actaaggcat taagagatat tagatatttc ttaatgtttt catagtgctc aataggtgta 1140
gtagcaatga tattacctct gaaaccaaat actcttttat ccttgattcc actatgggac 1200
cttataacta gtccatgaaa ccaagctcag aaaagcttta actcttatat ttgtgtatat 1260
gtatgctgct tctgaaaata taatttttct aagttgttgt aatgacttta atttgtaatc 1320
agctaaggct taagatttca tttgtttcta agtttctgtt tttcatccct tctttttttct 1380
tttatattta gttcagacct agagccagta gaagctctca cagtgagttc aatttgttag 1440
tgaaacattg tactgcatca ccagtttttc ttaccttctg ttgacagctg aatatttctg 1500
ttactcagta cttgcaaaaa cagtaactaa aatgcactat gctgagtgga aagcaccgtc 1560
ataacaattg attgccatag caagttccaa agtgaatttc agccttgctt cacatttgta 1620
tcaataaata tgcacatttt ttaaaacttt ctaacaaaaa aaaaaaaaaa aaaaaaaaaa 1680
aaaaagggcg gcc 1693

<210> 2462
<211> 1298
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (319)
<223> n equals a,t,g, or c

<400> 2462
gcctcatccc ttttttttcag tatgtgcaac gtatagagaa acagtttctt ttgtatgcct 60
actggatagg cttaggaatt ttgtcttctg ttgggcttgg aacagggctg cacacctttc 120
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cttcccttac atcctctaac atcatttaca tacttggata tttattttgg tattcttgtt 540
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<210> 2463

<211> 504
<212> DNA
<213> Homo sapiens

<400> 2463
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ggttcttaat aacaaggtct acctagcatg aagtatttaa cattctccca tcccttaaaa 120
aatatacatt tttataaaat gaaaaccata ataaatgttt tgaatattaa aaaaaataat 180
aacctacaga ggaaaattaa tggagacagc tatttgcctt gtacttttc cacaattgtt 240
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ggtgtttgct gcatacagtg taagcattgt gaccgccaat aaacttcaat ggtttctact 480
gaaaaaaaaa aaaaaaaaaa aaaa 504

<210> 2464
<211> 761
<212> DNA
<213> Homo sapiens

<400> 2464
ctgcaggaat tcggcacgag tcccactaca tgcagtggcc cagggcagag gggctgatac 60
atggcctttt tcaggggtg ctcctcgcgg ggtggacttg ggagtgtgca gtgggacagg 120
gggctgcagg ggtcctgcca ccaccgagca ccaacttggc cccctggggt cctgcctcat 180
gaatgaggcc ttccccaggg ctggcctgac tgtgctgggg gctgggttaa cgttttctca 240
gggaaccaca atgcacgaaa gaggaactgg ggttgctaac caggatgctg ggaacaaagg 300
cctcttgaag cccagccaca gcccagctga gcatgaggcc cagcccatag acggcacagg 360
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gaggctatgt caccctaact atcctggaat gtgttgagag ggattctgaa tgatcaatat 480
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cactttcaca tgtgttgtaa cttgtttgat ccacccccct ccctgaaaat cctgggaggt 660
tttattgctg ccatttaaca cagagggcaa tagaggttct gaaaggtctg tgtctcgtca 720
aaacaagtaa acggtggaac tacgactaaa aaaaaaaaaa a 761

<210> 2465
<211> 1924
<212> DNA
<213> Homo sapiens

<400> 2465
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agatcacttc tgcctttatt tttgctgttt aggggatgtg ttatcacaga aacttggaat 120
gcagagaaat gttatcacag aaacttggaa tgcagaaaaa tttttgcttt ttaggggagg 180
tgttatcaca gaaacttgga atacaaagac ctccccccac cgcagccctg ccccacccca 240
cctacccccc gctggattta gcactgcact tccattttag cagtgatttc cttccttttt 300
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gtttcaagat gccctgtcaa ctccaccaag tcatcgttgc tcggtttgca gatgaccagc 780
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aatatttaaa gcaacttcaa gtttaaaatg cagctgttga ttctaccaaa caacagtcca 1380
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ttaccttggg aaaatgctag caacattata gaaattttgc cttgttgcct tatcttcttc 1860
caaatgtact gttaaataaa aataaagggt taccccatgc aatcacaaaa aaaaaaaaaa 1920
aaaa 1924

<210> 2466
<211> 1600
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (464)
<223> n equals a,t,g, or c

<400> 2466
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aattaaattg cgtgaaactg actgttggcc ctgtggatta tcggcaccct tgtgttagag 180
cccctgatga gaaatgtgta tttttattgc atatttaggc catttgaaaa atggttatta 240
cttacccata taatacaaag aataggtttc ttctaagaaa ttcaaagcac actgcaaatt 300
aatcttaatt gtttggcatt tattcattcc ctgagtcatt catctattcg gtaatgattt 360
attgaatacc tcctgtgccc tggacactct gttaagttaa aaatagaaaa gtmcatctct 420
gccctcaacc tgatagttga gatgaaatga tgtaatcgtg tatncattga gctagagtgc 480
yctgtggtat gttctttggt atgcagtgtc agtaattatt aataacagta atgactaaca 540
tgtattgagt gcttacttta tgccagatgt tatgacagac ccatttactt ataactcagt 600
tgatccttca gacaatcaac cacatgagct gtcattactt gattatcccc attttacaca 660
tggggaaact taggcttaga aaggtatttc acccatcgta actcagatga aaagtggtag 720
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agtgagactc tgtctcaaaa aaaaaaaaaa aaaactcgag 1600

<210> 2467
<211> 759
<212> DNA
<213> Homo sapiens

<400> 2467
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gatctaatgg gagagaaggt caggttccac caggggaggt tctgagaccg aacttagtaa 120

gaagctattg taaaggaaac agtaacagga gaaaactgta tggcaaatac atattttctc 180
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tctatttttg aatttaaaag cagcttgctt ttacagctca accccaggtt ctgagaggtt 360
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tgatggtttg agtagttctc cctgaccttg tgtgtgcttt ataagatcct ttagtagtct 480
ctactctcga tgtacactgg tggggacctc ctcccagcca gagagtggct ccttgccaga 540
ccctcacact catctgtgtc ctatgttctg gactcaggat tgtgtgccag cttcagagga 600
tgctctccat agccgtagag gtggacagga cccccacctg cagctccaat aaaattgccg 660
agacgatgtt tgggtttgtg ctggacattc ctgagaggag ccagaggtga gtcttgattt 720
tgttggggag agcagttatt taaaaaaaaa aaaaaaaaa 759

<210> 2468
<211> 776
<212> DNA
<213> Homo sapiens

<400> 2468
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atgaatagcg actgtgatag ggtaataata aaatagtaat aatcactacc tgtgttaagg 120
gcttactctt atgctagaca ctgttccaaa tcctttccat gtttatgttt ctccttttag 180
taggattgtg tttatttcca ttaaacatca ccaagaaaaa caaaaagaaa tcctgtatta 240
acatttgctg catttctaaa tgacattctg gccaaaaact atagtttatc ttgacgtaga 300
tgatttttgc aatcaagaca agttatcact caaagaccac tccaatttat tgtccaatcc 360
tctggtaaca aatgtggtca gtaggagttc ttatacctgg cagatagaca agggcaatgg 420
ttttcaaact tttatctcaa gaactcatta tacccataaa aactattgaa gatcctgggc 480
tgggcgtggt ggctcactcc tgtaatccca gcactttggg aggctgaggc aggcggatca 540
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aataaaaaat tagttgggca tggtggcaca tgcctgtaat tccagctact cgggaggctg 660
aggcaggaga atcgcttgaa cctgggaggc agaggttgca ggagccgaga tcgtgccact 720
gcactccagc ctgggcaaca gagcaagacc ctgtctcaaa aaaaaaaaaa aaaaaa 776

<210> 2469
<211> 1573
<212> DNA
<213> Homo sapiens

<400> 2469
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tattctgcaa ggggaatgag atggtaagcc tttggggttg aattatctaa aaacaaggga 120
gagggagtgt gctgctgtct ctagaaagat gaaatgtgtg cttctcctgt ttgttaaagc 180
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gtggtacaac agcggtggtg gccctgatac gagggaagca gttgattgta gccaacgcag 360
gagactctcg ctgtgtggta tctgaggctg gcaaagcttt agacatgtcc tatgatcaca 420
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atgggcgagt caacgggggc ctcaacctct ccagagccat tggaatgtga tgagcagcca 540
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ctgcacagcc agggttcact cttttaatct gagctaagtc ggcaatctgg gagcattatc 720
agtaattgct gacagacgct aaaccccgac tccaaagttc caccttctgt catttccctg 780
acttagcctt atgccttatg gactagcagg tgggccgttg tgtgatacct cttgcccatt 840
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tctgttgtac actttcaatc aacacttttt cagactaaag gccaaaacct aatcgtaaaa 1560
aaaaaaaaaa aaa 1573

<210> 2470
<211> 1440
<212> DNA
<213> Homo sapiens

<400> 2470
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gggaaaggtg ctcacgtcat tgcattagca tcacaacttc aagaaaatgc tcgttaaaac 120
cagagtgact tgcaccagca cccgccccag aacggccgaa tgcccatcag tgctggcaag 180
tctgaagcag tctggcctca caccctgcgt gtaggagtat gcagctcttt ggcaatctct 240
tctgttttgc tttgtttgtt tttaaccatc gaactgcaga agataatatt ttctgaggct 300
cagcctgtac ataccctctg acccagcagc ctgcagccct cgttctaccc aggagagctg 360
agtgcatctg tccacaccga cagacgtgtc catagccact ttggtcataa tctcccaaaa 420
caagaatcag cccagtgtcc atctacaggg gcatggatca gtggaggcct aatcgtacag 480
ggccccaaac agctgtgaaa acagacatag tactgctacc tggaagaagc ttacattttg 540
ttgagtgaaa gaagccagac actaaaaagg gcatactggc cgggcacagt ggctcacgcc 600
tgtaatccca gcactttggg aggccgaggc gggcggatca cgargtcagg agattgagac 660
catcctggct aacatggtga aacaccgtct ctactaaaaa tacaaaaaat tagccgggtg 720
tggtggtggg cgcctgtagt cccagctact cgggaggctg aggcgggaga atggcatgaa 780
cccaggaggc ggagcttgca gtgagccgag accgcgccac ggcactccag cctgggcgac 840
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<210> 2471
<211> 1544
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (467)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (471)
<223> n equals a,t,g, or c

<400> 2471
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cacccactat ctggggatgt ctttttctgg ggctagtcca tcttgtcctg gataactacc 120
ctatcttgag aacccagtct tagtttcatg aaacatcttt aatgaaaaca gccttttggg 180
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tcagttagct tgtcttttcc ccaccatctt aaaatacgac tcttattttt aaaattgcat 540

tttataaaca tgtatgtttc agtaatttat attctgcccc actgatctat attcccatct 600
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gcatggtggc acatacctgt agtcccagct gctcaggagg ctgaggcagg agaatcacct 1440
gcacccggga ggctgaggct gcagtgttct gagatcacac cacagcactc cagcctgggt 1500
gacagagtga gaccttgtct caaaaaaaaa aaaaaaaaaa aaaa 1544

<210> 2472
<211> 1335
<212> DNA
<213> Homo sapiens

<400> 2472
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caagatacct aggaatgaat ccaacaaatg cactttcttc acagatcaaa gcataaactc 120
taattgaaga ctataaaagg cacatgcagt gttcatggca ccatagccat ggatgaaaag 180
actcatcatt gtggagattg gcagttctca aattaatctg tggatttatt aatacacttt 240
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ggcgcagacg gcattaagaa gctgcaattg cagggcagcc aggccaagag gcaccagggc 360
cctcagcgca cagtgagccc agaagggccg caagtggcag ggtacctctg cgcactaggg 420
aaggagccat gttgctaaat ggtgttggga cagctgatgc catatagaaa aggatgcagt 480
gataccccta cctcacacca tgcacaaaac acatcacagt gagagaccta acctgtaaaa 540
gcctttcaga gaaaaatcaa gaggaaatct tcctaacagt gaggaacaaa aagacagatt 600
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acaagaaaaa tgtcacggtt gtaatgtaag tggcagaata agaaaagata tttgcagtat 720
ctacgagtta cagaatatat ataaaaatat gtgcaactgt ctgtcgtgaa aaaaaacggc 780
aaacaccaca catcgataag gatttgggga cattggcttg tgtgtgtcct gccgagagtg 840
tagatggtca cccatttggg gaatgaaatg gccttccctg gggagatcag agtcatgcag 900
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aaatcctcaa agcctaacat taaagaagca agttgctaga aaataggccc cattttgaca 1140
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ggaaaacctc agcagccccct gggaggcgcc ctcagcccaa gggacagccc tcccaggcag 1260
gcgcaggggc agacgatgct tttactgtgt ctaaaattat gcttctctat gaaaaaaaaa 1320
aaaaaaaaac tcgag 1335

<210> 2473
<211> 1628
<212> DNA
<213> Homo sapiens

<400> 2473
ggcacgagtt acataccact cctttccctg tgtctgtgtt ttttgcttat gctcatctgt 60
ttggattttt tttcctcctg acagaattgt acttaggcct caaagcctaa ttcaaaaggt 120
cacttccttc cctaagccta acctacctcc caataatatt taatggtaat ttcctctgtg 180
attaccccta tagaataacg tagcagttat gttatttaag ggtaacataa agggtattta 240
acccattatg ttatgctgtt tgtgttgtat atgtctctgc tctcaaaggc tgtgagctct 300
atgaggacag gaactatctt aatcaattgt gtattcctag caccccatac aagtgcctgg 360
aatatagcta caatcaataa atgtttgtaa attgaattga attgaaggga cattacaaca 420

ttgtagtata aatcactttg tagcctgaga ttgatcacta ctgcaaatac taaaagtgga 480
agaacatata cctttactat tcagtagaat agttttatgg ttaaatcaat agcatcgtgt 540
aacatgtgat gatgtgcgtt tatgcattta tccaaatatt tgtaagttta atactgacca 600
cgatgtatat ggctattgaa gaaaaccaca cataatatgt gtgtgaggtt tgaaactagc 660
tctgttgcct aaggctgtct ttgtgccttg ccagaatgtg gaccgtggca tgatcggcct 720
gaatatttag ccatcctcat gatagcatgt ggaataactg gtttacartt catycgtttc 780
atacatactc tgcctagcat gttaaaatta actggaaact gaagaattgg agccaaagtt 840
agaaaatgaa gagagttcaa cttgaaacca tcaggaaaca ggctgattac atgaaggtct 900
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aggcstgagc caccatgccc atcctatatt ttttttcagg caatatcctt ttgtgctcaa 1080
gaaattaaga cacacacccc accacaaact acatttgaag actctgccaa aaaaatgcca 1140
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taaaaaaagt tagccaggca tggtggctta cacttgtggt cccagtgcgc aggaggctga 1500
ggcagaagga tcacttgagc actagaggtg gaggttgcag tgagctgaga ttggagtgcc 1560
agtggactcc agcctgggtg acagagcaag actctgtctc agaaaacaaa aaaaaaaaaa 1620
aaaaaaaa 1628

<210> 2474
<211> 1957
<212> DNA
<213> Homo sapiens

<400> 2474
gaattcggca cgagcaaatg ttggtttgta tatatatttt ttaaaaggca ctagacttag 60
aaatgccaaa gtaattaatt ttctttattt tcagaaacaa tttagtgttc atggtacgaa 120
gtgtttctaa attgaaacac tttcagatta atggatttaa gataactggt tgctcttttc 180
tataagtagt aataatgaga tatggcttca gctacatatc agataccaga tctcacttcc 240
tgttccttta tttcattcat ccattcattc agcaaatatt tgctgagcac taaaatgctc 300
cagacacagt gcatgaaccc tgaagatata ggcaaattgc ataacccaag caaagggcca 360
gagatgagca acagcatggt acatacccca aactaagaac ttcactatgg gctagggata 420
tataatttag aagaaagaag gttaggttgg ggtaggagga agcataataa attatgaatt 480
tagagatgta atcaaattat gaagggtcat gaaagccttg tacaagattt tgagtttgat 540
ctccatagag tcatataatt agattaattt tagaaagctc atagtgtctg cagtgtggag 600
agtagattag aaggaagcag gcctggaagc agggagatca tttgggagac ttttccagga 660
cagagaaaat ggtggtctaa actgggatgg ttgcaagggg gatgaaaaga stagatatyt 720
aagagaaaat ttaagaatac ttatttagtt cagacgttcc tgaaagaatg agcctaacca 780
tattcttgat catctaagga aggtctattc cttctcaagg acagctaagt aaactaataa 840
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tatttgtttt tttctttcca attagttagg gtaaagcaag tgtaaaggga agtggatggt 1440
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gctgaatgca acagtgaagg ccgttgacaa gagaggttgc attacttcaa ccagggctac 1680
tgcagtgaac caaaaaaaga actgagttct aggcttccat ctccaggcta catcttaact 1740
gactaagagg gcagtttagc tgtccaggaa gaactcgatt gctaactctc actgataatt 1800
ttgcaacagt gacaataaag aatgaatttt aaaaagaaaa acttgtctcc ctgaactatt 1860
gaactccaga aaaagtagta cttacagtct ttgctttaag agaaaccagt taaaaaaaaa 1920
aaaaaaaaac tcgaggggggg cccgtaccca atcgcct 1957

<210> 2475
<211> 636
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (31)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (35)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (40)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (630)
<223> n equals a,t,g, or c

<400> 2475
agaacacaat attgttttct gtctagtgtg ngggnagtgn ttttttatgt cctttgggag 60
actgtagttg acttgccctg ggggtatgga caagttttcc atttggaagt ttatttcatg 120
ttacttcatt tatgcttatc cctaccctct tctgtttggt tcttgggtgt tctgttactg 180
tcctgtgtta acactgcatt acaataccat taaatttggt tacaaggatt ttraccttgt 240
ctttgtccct agtgcttcat acagtgcttt ggcatgttgt tctgcactta ttatgttgag 300
tgagatttgg aggaaggatg caatccttga gcttcagggt ttgtgagttc aagggttggg 360
gaacatgtct tcctcagtcc ttaagattgc ccagatcctt tctctaacct tatttccctt 420
ctcatttttg cagctttgtg tccctggtga tgttggaaca ttaatgatgg aacatggcca 480
aacttcagtc atgatcctga agccatggtt tcttccctgc cagaaatgaa ggttcagtta 540
tgaggcaacc ctctagtaag gcattgtaaa agttactgga tttggtttaa taaaagttga 600
aataaaaaaa aaaaaaaaaa gggggggccgn tctaaa 636

<210> 2476
<211> 1320
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (831)
<223> n equals a,t,g, or c

<400> 2476
ctaacagcga gaacgctttg gtgaggacgg agccctcacg acctcagcag tgttgcgttg 60
gggatcaggt ttccgatggt gaacttgggg acacgtccac accacagcac gtgcctattg 120
tgtttctcgg tggctggtgt gtttgaggat ggcgcgtgca tgcgttttcc agctttcttt 180
gtggaggaag ttacctgtgg gtattaacct gtccccagcc atcctctcac tgagcttggg 240
ttgcctgggc ctgggtttcc tgttgttgct ggaacgaatg accacagaca gtggcattag 300
acagcgcagg cagacatgac ctcctgggct tctgcgggtg ccaacactgc cgctccttct 360
ggaggctcag ggaggctctt gagggcattg ggacatcgts ctgccggccg ccgggcagag 420
ccgktttgtt tatttttra gacttccggg aacatagtta taaataactt taatttgcct 480
tggcctgccc actgcagtac agtcacgtgt cacataacat tctgtctacc gtggaccaca 540
tatacgacca cgcggtcaca taagctgaca atactgtatt tttactccac tttctctatt 600
tagatacaca gttgccattg tgtcccagca gccttcagta mtcagtacag ccatgtgctg 660

tgcaggtgty tagctcaggg gcatgrggcc mtggcccagc ccagtgtgca gtgggtggca 720
ccttctggat ttgtgtcagt camtgtggag ttcgcacaat gacagaytca cctgggaggc 780
cttccgtgsg sttctgtttc tttctctmat ttgattgtgg ctagaaacag nstgggaacc 840
aggagtgcag yttctcggag tamgtggctg ccccacgggg tgggatgtgc attttcagtc 900
acatttgggg agagcacgcg tgttcttaag tttttagtgg gttctagtaa gaatggatgt 960
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aatacgaagt caagagcatg gtacggtgag gacccagcac catctccaac ctccccgggg 1080
tccacgtggg gtctgcgtgt ggccgcctgt ccctcagcac gatgtctggg tgtaaatctg 1140
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aggagaatcg cttgaacctg ggaggcagag gttgcagtga atcgagatca tggcactgcc 1260
ctccagcctg ggcgacaaag cycagactcc gtctcaaaaa aaaaaaaaaa aaaactcgag 1320

<210> 2477
<211> 1521
<212> DNA
<213> Homo sapiens

<400> 2477
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gccctgcctg gcagagagcc gggctgctcg tgagaaagag agcttcaacc tcaagagggc 120
tcaggaggac atctcacggc tgcggcgcaa gctggaaaag cagaggaagg tggaggtcta 180
cgcagatgcc gacgaaatcc tccaggagga gatcaaggag tacaaggcgc ggttgacctg 240
cccctgctgt aacacccgca agaaggatgc agtccttacc aagtgcttcc acgttttctg 300
cttcgagtgc gtgcggggcc gctatgaggc ccgccagagg aagtgcccca agtgcaacgc 360
ggcctttggt gcccacgact tccatcgtat ctacatcagc tgaacctgaa actcagggga 420
ctctggaaca ccatggaccc tgggggctgt gccccatctc ctccccaccc caggtctagt 480
ggccccaccc tccattccgg accccatggg cccagcccct gcccatctag ttggtttggg 540
gaccctggtg catgctagtg ggcatgggat cagccaagct tcgttccatc ttttcctaaa 600
ggtcagagct gcagcctagg gggcactgcc ctacagaaaa ggtctgcctg agaggcctga 660
ggagcccaga gcacttgact gagcttcccg gaaactggcc ctaacctgtc tgtctccgtg 720
gatgcatcct aaccctaagg aaaattcccc aggctgtgat ctaccctaga gaaggctcgc 780
tccctgccta ctggctcaca aatgaggacc agtgagccat gtccttgttc cttgtttgag 840
actgggctgc aggccccagg aagactttcc ttcacccacc atccccctaa cctcggcagg 900
gcttctgtcc tgtggagttc cctggacacc ttggtctggc tcttgtgcca agggctgaag 960
gaggtaccct cttggcagat gggggcatca cttgcttcct ttgggaagct ctaaggttgc 1020
tgcagtcacc ttcctcatct tgcaggtgct gaaccaacat catcagtttc tattctaatc 1080
aggccccttc ccaatctcca tttctctgcc aagcccattt acccccacct catgcatccc 1140
aaggctctac tgggtccctg gacctaaccc tgctttcatc ctggtggcct taactacagt 1200
ggaggtggaa cttcccagga ggggaaggga cagaccagcc ccagccgctg ggccaacttc 1260
caatcattcc agctagaaga gcttcccccc gacaccctgt gactgagcct gtgtcctgtc 1320
tgcctgccca gccatgctcc atcggctgtg agggcagtgc ccggagaggc cagagggttg 1380
gagctgcagg gacccgtttg gacccacagc ctctgttcta gagatgcttg tataggctgt 1440
taattgtgat gaataaacgt tcaaccctcg gcctgcagcc agagtagcca ggccgcgcac 1500
cccaaaaaaa aaaaaaaaaa a 1521

<210> 2478
<211> 1103
<212> DNA
<213> Homo sapiens

<400> 2478
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aagtgagatc attgaaggct ctggtcatca ccatcttcaa tttcattgtc acggtggttg 120
ctgccttcgt ctgcacttac cttggaagcc aatatatctt cacagaaatg gcctcgcggg 180
tgctagctgc attgatcgtc gcctctgtgg tgggtctggc cgagctgtat gtcatggtgc 240
gggcaatgga aggcgagctg ggagaactgt aactggtgct tcatcatcaa gtctagagaa 300
gactttgggg gcttcaggct ccaattggca gtcaccgact cagtcaaccc atcagacttt 360
ttgtattcag ctccagttag tcagaagacc agcccaggcc agctgctgtt tctgtgggga 420
gccctaatct tctgtgaatt tccaaaggga gcattggagg agattgagat aacacatctt 480
taaaacagaa agactggtct tggtctatca gtacctcttc ctgaatctgg tacccatctg 540
ccttctccag ttcattctaa acactgctgg gactagggtt tttccatcag gagcaaatgg 600

aatccaggcc ttcccagaag tagaccatac tgccttgaac ttgtccatat gtacaaactg 660
atcaccagct ttctccatac atttttaatg cagacctgta attgagttca gaagcctcca 720
agaaaacaga aaggatcccc tttctccagt ttgtgctgga agaggagctg atcagagaca 780
tcaaataaga gaaagatggg ttgctagagg atggtagaac tggaagcaag gcagctacct 840
ttttgcaaaa ggaaatggtg ttaggcccct tttccagaag ataagacaga ctcatagaga 900
ttaaatgatc actatggtcc ttcttctgtt aaatggagcc aaagacgcct atgttgttct 960
gaagtcttgt aatgtttaac ttctgagaac ttagattagt ggtgtgatga tagagtctgt 1020
ataacgcatt gaaaagggta tcaggcttag ttatttatcc aataaatatt tattgtatgc 1080
agggtaaaaa aaaaaaaaaa aaa 1103

<210> 2479
<211> 968
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (261)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (847)
<223> n equals a,t,g, or c

<400> 2479
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agttctagaa gtccttggcc tcatcttgcc tcaagggcat tgcttagaga tttccagaat 120
gtcattactt aatggaaaat ctatagggtc tgcttccttt tgggacagct tggctctgca 180
ccctggccgc ctgtgtcctt gtggctgggc tgctcctgcc cctgcctgcc atcacttacc 240
tggcgtgtgc ttggtgcgca natcagctat atgtttctgg agctgctttc taggagaaat 300
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tccccattgg tcactttgga cttgctggtc ctgctgcatg gaagccctct ccagcctact 480
ccacatgtga gtggggttta aaccccactg acttgtttcc ttgtctgtga tgctgtcctt 540
ctaccaatac ttgtgtccag tcacttggtg tgtcctgtaa tctatctgtg tctggaccaa 600
gactggtaca ctggacccaa ggttcccagc aagctgatat gtggcttgtg tcatttgtcc 660
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acaaaaaaag tttgtgtaat cctggtttaa ataaattaca caaagtaatt cactggcagc 840
tagggtncct agtgtgtgct aggcataaag ctgcttctga acccactaaa agttcatccc 900
agaatgatat ctccactgag ttcttaggtt tattactaga gatgaaaaaa aaaaaaaaaa 960
aactcgag 968

<210> 2480
<211> 1544
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (808)
<223> n equals a,t,g, or c

<400> 2480
gaattcggca cgaggttatc cttggctgca ggtagtgaag aggtgtacca ctctttaatg 60
tttgtactga gtggcatgtt cacaaaaaag ctcagaattc agttgcattg gcttttcaag 120
agggatttgc agcaagggct ggtttccaat atggtagtgg aggaattggc taacataaaa 180
ctagctcctg aaattcagac ttgcgtttac tgctctggct ctatggaatt agtaaccatg 240
ggaaagaggc aacgcttaga actgtgtaaa gtgatggagt aggtagagac ctgtcttgaa 300
gcatcggtaa cagtaaatga agcagcagca agatcaggtg ttctgtgcca cattcttttt 360

ccattcatgt ttcatacaac attgtcttca ggaacatggt tcagtgttct cccaacccac 420
aagagacaag caaaataaaa atggactaaa taatttgcta gtttttaatt gggctctttg 480
gcacagactc aagtagacct gaactctcag ctctgtygtg aacccgcttt gtgaacaagg 540
acaaagcatg tcatctgtct ctgagccyca gtctccctgt tagtcagtta cagagagagc 600
gctccaagtt tccttccaaa gctgtgcact ggctcgttty tccatcagct ttggttttcc 660
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gagtgggtgg gaaggtgatt gggcgccagc cccttccttc ccaggcttca cacacacacc 780
ccaggaascc ccgcggtgcg tcggactntc tgtctagaca tcatctgatt tttatttgca 840
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ccggagtccc cacagagcca agcataaggt ctgccgaagc cttggcgttc tcaggtgagt 960
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ggcttcttca ctggcacctc tctgaatttc taggaatgtg cctttacctt taccgagggc 1260
ccctcttcag ccaacattct cacgatgtgg aataattgct tggaagtgta gaagggcttc 1320
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tccctgggga cattagttct ggtccctcat ctctaaaaca ttgatgtgcc taagagtaat 1440
acacattttg gtcttcctct gaactttaat atagcttgca aacaaatatg gattcaatct 1500
gatttttaaa gttttatttc taaaaaaaaa aaaaaaaaac tcga 1544

<210> 2481
<211> 677
<212> DNA
<213> Homo sapiens

<400> 2481
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cgactcccag aggaccttgc gtcgggcaag aaagactaca ccttccagag gcctctgcgg 120
cgccgcgaca ggaagcggcg ggcgagccga gtgtccttgc gcgtggatcc gagcgaccat 180
ggtggcccgg gtgtggtcgc tgatgaggtt cctcatcaag ggaagtgtgc ctgggggcgc 240
cgtctacctg gtgtacgacc aggagctgct ggggcccagc gacaagagcc aggcagccct 300
acagaaggct ggggaggtgg tccccccgc catgttacca gttcagccag tacgtgtgtc 360
agcagacagg cctgcagata ccccagctcc cagcccctcc aaagatttac tttcccatcc 420
gtgactcctg gaatgcaggc atcatgacgg tgatgtcagc tctgtcggtg gccccctcca 480
aggcccgcga gtactccaag gagggctggg agtatgtgaa ggcgcgcacc aagtagcgag 540
tcagcagggg ccgcctgccc cggccagaac gggcagggct gccactgacc tgaagactcc 600
ggactgggac cccactccga gggcagctcc cggccttgcc ggcccaataa aggacttcag 660
aagtgtaaaa aaaaaaa 677

<210> 2482
<211> 1678
<212> DNA
<213> Homo sapiens

<400> 2482
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agaagagacg tctattttag tcttttaaaa atgtgtgtgg gtggtctttt ttcctcagaa 120
gcccaaagca catgtatatt ttgttatttc tccttgctat attcctgaga ctatactaaa 180
aactttaaga aaaggaacaa gaaaaaggta aattcatgtg ttccccactg ctgtgtctag 240
aaccaagatc acattatatc attgttaaaa ttgtgttatc tagaaagtgc aatataggga 300
aaacactcta agaatctttt aaaagcctag tgtttccctt atttgtcaga atatgtggta 360
gtggcatcca taagtatctt ttaacttgca tttagcagga caaatagtgt gatacttata 420
ctgatgacaa tcatccccat ttaatgacca gcagtcactg agcgctgtga aaattcactc 480
agtgataccc cgtgttggtc ttgaaggaaa ccgtacatat gaatttttgg atagctaatg 540
tatatctctc aagtgccaac atttaaaact tgtaattatt tttgatgtga gtatttcagg 600
tatgttagta taccttcctg ccttcttctt aaacatcatg ctcagtataa ttcacatttt 660
catgatgaaa agttaaagtt atattcataa tgtattatta taagtatcca gctctgatgt 720
atgtaaaaca cttcataaaa tgtaaagggc tataacaaat atgttataaa gtgattctct 780
cagccctgag gtatacagaa tcatttgcct cagactgctg ttggatttta aaatttttaa 840
aatatctgct aagtaatttg ctatgtcttc tcccacacta tcaatatgcc tgcttctaac 900

aggctcccca ctttcttcta atgtgctgtt atgagctttg gacatgagat aaccgtgcct 960
gttcagagtg tctacagtaa gagctggaca aactctgggg ggacacagtc tttgagacag 1020
ctcttttggt tgctttccac ttttctgaaa ggttcacagt aaccttctag ataatagaaa 1080
ctcccagtta aagcctaggc tagcaatttt ttttagttgc aactaagtaa gatatactac 1140
aaactaagga tgctgctaga ctaaggaata aacagcaagg taccaaagta cagcaaagca 1200
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<213> Homo sapiens

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EP 2 457 589 A2

<210> 2486
<211> 1117
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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Feature 6555

<210> 2488
<211> 2060
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<211> 938
<212> DNA
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<211> 1896
<212> DNA
<213> Homo sapiens

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<210> 2492
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<212> DNA
<213> Homo sapiens

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<211> 2836
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

<400> 2494

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<212> DNA
<213> Homo sapiens

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<210> 2496
<211> 1629
<212> DNA
<213> Homo sapiens

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<210> 2497
<211> 1610
<212> DNA
<213> Homo sapiens

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<210> 2498
<211> 1945
<212> DNA
<213> Homo sapiens

PCT/US2003/035838

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<211> 1455
<212> DNA
<213> Homo sapiens

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<210> 2500
<211> 743
<212> DNA
<213> Homo sapiens

<220>
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<222> (718)
<223> n equals a,t,g, or c

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<210> 2501
<211> 715
<212> DNA
<213> Homo sapiens

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<210> 2502
<211> 1040
<212> DNA
<213> Homo sapiens

<400> 2502
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<210> 2503
<211> 3511
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (779)
<223> n equals a,t,g, or c

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<210> 2504
<211> 2058
<212> DNA
<213> Homo sapiens

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<211> 840
<212> DNA
<213> Homo sapiens

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<210> 2506
<211> 2387
<212> DNA
<213> Homo sapiens

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<211> 2064
<212> DNA
<213> Homo sapiens

<220>
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<222> (1596)
<223> n equals a,t,g, or c

<220>
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<222> (2005)
<223> n equals a,t,g, or c

<220>
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<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2057)
<223> n equals a,t,g, or c

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<210> 2508
<211> 1127
<212> DNA
<213> Homo sapiens

<400> 2508
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ggcccctggc taccttacct cacccaattt cctcctttgc tctgtactct agctacactg 180
kccgaggagt tcctaaaaca tcacgctggg tccgaccaca ggatcttcac atgtgctgct 240
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gagactgaag caggaggatc acttgaacct gggaggcaga ggctgcagtc agccgagatt 660
gcatcactga gctctagcct gggggacaga gtgagactct gtctcaaaaa aaaaaaaaaa 720
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<210> 2509
<211> 772
<212> DNA
<213> Homo sapiens

<400> 2509
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acagctattt atttccaggc aagagtttta agaagaacca aaatgccccc aaatctcact 180
ccactattga cggtttaaaa agtgaccacg tacgtgtggt gaaaaggtta caatagtgcc 240
agaaaaagca gcgtctgagc acccagggtc ccatgcgccc tgcttccctc gaaggtcact 300
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<210> 2510
<211> 1014

<212> DNA
<213> Homo sapiens

<400> 2510
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atttgttgct atgaaagttg tccatggtat aactcatcac tttttgaagg tacttagtat 180
gtctgatact ggcaagctgt catgaaaaaa ttgatgccca gggaattccg gggttttgct 240
ttcagatgtt tgacatgtag atatttaatt cttcttaaga tttccctgga cattgtcagt 300
gtaaggtgta ctgatcttta aacacaaact ttagtttggg ctcctgtttc tcagcattct 360
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tatgaatcac cttggggatc ttgttaaaag gcaggctatg atccagtggg tctgggatga 480
gtcttgggat tctacatttt cgcaagctcc cagataatgc cagtgctgct ggtccacaga 540
cagtacttta agcagcaaga caacactttg atggacaaag tggtgctgtg caacacccat 600
cacatacaaa ttaccagttg ctttcctcat tgtgttttgg tgcatctaaa gctaagatga 660
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cttgctgcaa acagaagtga atacaacaaa ctgctaactt gaaaagatgc tgatagaggg 900
gttagaaagg catagtgctg aatcaaatgt atttatttta actagctctg ttcatgatgg 960
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<210> 2511
<211> 1642
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (957)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1578)
<223> n equals a,t,g, or c

<400> 2511
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tcatcctgat tcccctcttt ctgcgtatgg tgaagaatgc tttatggaat actctgcatt 180
ccttttctctc aagacttaga tttaccatta ccatatggaa atttctaggc tgtttccaat 240
gcctaggtgg tgctcagaag tgttagtggt ttagtagaat cctaattgtg gagaaagaca 300
gccaaatttg ggaggttttt agcatagagt aaccctggca ttcagggatg tttgctgtgc 360
aagatgggtg tggtaccaga ggagctgttc ctggaggaac tgaatctcag tggcttgaag 420
tggtcagttc cggcattggt atgttcccct tctgtattgc acagagctgg gaaaccactg 480
aagtcatgtg ctctgcagaa cttgttcaac tggtttcctc tccacagacc cctaattcag 540
atttccaccc ttattctttt ctgcatatgc tcttagtctg ggcttgtttt aaggtttacc 600
acagtagagt tctcagtata gttatttatt tgtcttgctg agtgtagagt gggtagggcc 660
aagtatgtac tccctttgaa aagtgttatc agtaagacaa gatagacagg tattatgtaa 720
atcatggagt gtcagactcc attagcaggt ttatttctgt ggatctaacc atttcacccc 780
cacactcatg tgtacataca catatacata gctatcatta tttagagcct actactagtt 840
gctgggtgag gtgtcagagc cccggcattg gaaagtagtc aactcacagg ttggtaggaa 900
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gaaccaggtg ccgattttag ataacaggga agttaattac ttctaaattc ctcagataag 1260
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tgccgcctct gctcttcaga accttgcttt cttttgttct tattcctgta tctttagccc 1560
ctccttcacg tgttcttntc ttgcagacta taaaaatatg ctttttccac aatcatttaa 1620
aaaaaaaaaa aaaaaactcg ag 1642

<210> 2512
<211> 1534
<212> DNA
<213> Homo sapiens

<400> 2512
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ctaattttat cttttaaatc ttgcgtttct cctctccagt ctgggcgaca gagcaagact 180
ccctttccaa aaacaagcaa atgaaaaaat agagttttct ctatcacaca aatgggaagg 240
tttgtattga atgttatatt tatcctctat ccagtcttgt cttgggagca caaagcaaaa 300
aggcccagca tcctccacta tcttctgaaa acttgccctc aggcctgagc aagagggctg 360
cccggttgct tccatgtagc cagccagcat atgtgcaggg ccaagtctag agggaggagg 420
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atttgaaaga tgttgagagt tgtggatcat gggcaagaaa agcgctgttc tgggactgcg 540
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gtgggcctca ggttagacag tgctkaggtc tcccgtcact gggcatccag ctgggtctac 660
ggccgtggct cctgccttct gcarccctgt cagggcccaa ggccttcccc atcagcactt 720
gctccagcct actcactgga akttgtgttc tgggtgggkg tgtagaatac tcgmactcyt 780
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa 1534

<210> 2513
<211> 857
<212> DNA
<213> Homo sapiens

<400> 2513
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ttttattttg gttttgtcag tttgctactc gtgagtttat ctttgaacag cttcccatgg 120
ctatgggatt aggtctgtac tccagagcct gatatctatg ggccttttt tcttagcctt 180
tctagtcttt ttaccccata tttcttcatg atatccatak tttatccaac ctaaacaaag 240
agctagtccc caagcacact aacccgttac attcatccct ctgcttttaa tacaattgtt 300
cctctataga gaataccttt aaaaatatat ataagttggc taagctcaaa aacaccactt 360
ctatgataat actcttacag attcttccat ttgtaaatat gcatgctcat agtactctta 420
cagcgttggt cctctcttat aacawtgtta ragtagatac tgtaaactga aaagtgacac 480
ataaaaatac ataatggtgc agctcaggta tgtgtcatct taatattcct attaacctta 540
gaactttgtg actgtgttgg gattacttga catatttgtt tatcaatcam cmcagtgaca 600
gtgacgacga wtkagtaacc agtgttttgt ttttgaaaca tttgaagaag tgttccatat 660

Top Secret

ttctgaagtt attagtttag tttagtttag tttagtttag tttagtttag tttagtttag 720
tttagtttag tttagtttag ttttaacgac agagtcttgc tctgttgccc aggctggagg 780
ttgcagtgag ccgaggtcac gccattccac tccagcctgg gcaacaatag cgaaactcag 840
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<210> 2514
<211> 819
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (814)
<223> n equals a,t,g, or c

<400> 2514
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ctgacctcac acctggagga agctgtgtga ccgattcatg agcttatgcc tgaagacaga 180
gcaagcactc cccgcaccac gacgatgacg ttcacttgtt ttgtgttttt cgatctcttc 240
aacgccttga cctgccgctc tcagaccaag ctgatatttg agatcggctt tctcaggaac 300
cacatgttcc tctactccgt cctggggtcc atcctggggc agctggcggt catttacatc 360
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tgttgcagcc ccaagagagt ccagatgcac cctgaagatg tgtagtggac cgcactccgc 540
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aatgattttt attaaaaaaa aaaaaaaaaa aaanaaaaa 819

<210> 2515
<211> 739
<212> DNA
<213> Homo sapiens

<400> 2515
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tgccgaagct gattccctcc ggtgcaggcc gggagtggct ggagcggcgc cgcgcgacca 120
tccggccctg gagcaccttc gtggaccagc agcgcttctc acggccccgc aacctgggag 180
agctgtgcca gcgcctcgta cgcaacgtgg agtactacca gagcaactat gtgttcgtgt 240
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aaaaaaaaaa aaaaaaaaa 739

<210> 2516
<211> 1537
<212> DNA
<213> Homo sapiens

<400> 2516
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cagttccccc ctcattgctc gagtttgtga tggggccaga ggctccttca cttcttcctc 180
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tggaggaccc gttgcagggt gaggtcaaga gagttctgac ctggatggcc catagacctg 1380
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa 1537

<210> 2517
<211> 2146
<212> DNA
<213> *Homo sapiens*

<220>
<221> SITE
<222> (20)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (38)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2125)
<223> n equals a,t,g, or c

<400> 2517
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<210> 2518
<211> 1384
<212> DNA
<213> Homo sapiens

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<210> 2519
<211> 1374
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<221> SITE
<222> (5)
<223> n equals a,t,g, or c

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<221> SITE
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<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (41)
<223> n equals a,t,g, or c

<220>
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<222> (44)
<223> n equals a,t,g, or c

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tgctttgaga gttttgtcac atgttgacat gccaatgttc ttataaacct tttataaagg 600

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aaaaaaaaaa aaagggcggc cgc 743

<210> 2521
<211> 736
<212> DNA
<213> Homo sapiens

<400> 2521
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ggtccctttt gggacagaga ggtactcctt gatctttatg aatgacaggt tactgttttg 660
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<210> 2522
<211> 803
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (790)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (793)
<223> n equals a,t,g, or c

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<210> 2523

<211> 1010
<212> DNA
<213> Homo sapiens

<400> 2523
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<210> 2524
<211> 1554
<212> DNA
<213> Homo sapiens

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<222> (847)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (888)
<223> n equals a,t,g, or c

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<210> 2525
<211> 1700
<212> DNA
<213> Homo sapiens

<400> 2525
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<210> 2526
<211> 2058
<212> DNA
<213> Homo sapiens

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<222> (3)
<223> n equals a,t,g, or c

<220>
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<222> (2031)
<223> n equals a,t,g, or c

<220>
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<222> (2040)
<223> n equals a,t,g, or c

EP 1 566 439 A2

<400> 2526
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gaaattaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1980
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<210> 2527
<211> 1781
<212> DNA
<213> Homo sapiens

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<210> 2528
<211> 1781
<212> DNA
<213> Homo sapiens

<400> 2528
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taaaacaaaa aaaaaaaaaa aaaaaaaaaa aaaaaactcg a 1781

<210> 2529
<211> 575
<212> DNA
<213> Homo sapiens

<400> 2529
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tcatctaact ctgtttccag ccgtgagact ttttc 575

<210> 2530
<211> 646
<212> DNA
<213> Homo sapiens

<400> 2530
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atttctgttt gcttaatatt gggaatactg ggggaaaaaa agatggtgtt ttcattctaa 180
ggattgtcct aaagaaagtg ctactttatt tttaagaaag taaggccact tgttatataa 240
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tacaactccg cagtggatgt gaagaagcaa aaaaaaaaaa aaaaaa 646

<210> 2531
<211> 529
<212> DNA
<213> Homo sapiens

<400> 2531
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caaaagtgac tcctaaccca tgtacaattc agaaagaaag cactagttaa caagtgccca 420
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<210> 2532
<211> 963
<212> DNA
<213> Homo sapiens

<400> 2532
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gcaagaggtg aaacaagatg tgagagacaa ggggtaggga agaaatgggg cagcggttag 180
gttcagaagc gcatagaccg tggcggacgg gcaatgcgag gggcacagaa aggaactgag 240
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aaa 963

<210> 2533
<211> 1574
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (457)
<223> n equals a,t,g, or c

<400> 2533
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aaaaaagggc ggcc 1574

<210> 2534
<211> 2735
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (66)
<223> n equals a,t,g, or c

<400> 2534
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<210> 2535
<211> 1121
<212> DNA
<213> Homo sapiens

<400> 2535
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tgccgcaata aacatacgtg tgcaaaaaaa aaaaaaaaaa a 1121

<210> 2536
<211> 1971
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1926)
<223> n equals a,t,g, or c

<400> 2536
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<210> 2537
<211> 1971
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1926)
<223> n equals a,t,g, or c

<400> 2537
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<213> Homo sapiens

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Page 2 of 5

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<211> 688
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<212> DNA
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FEB 25 2005

<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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<223> n equals a,t,g, or c

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<211> 1236
<212> DNA
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<212> DNA
<213> Homo sapiens

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<210> 2551
<211> 639
<212> DNA
<213> Homo sapiens

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<211> 744
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<210> 2553
<211> 678
<212> DNA
<213> Homo sapiens

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aaaaaaaaaa aaaaaaaa 678

<210> 2554
<211> 2785
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<210> 2558
<211> 1727
<212> DNA
<213> Homo sapiens

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<210> 2559
<211> 2314
<212> DNA
<213> Homo sapiens

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<211> 1161
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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aaaaaaaaaa agggcggccg c 1161

<210> 2561
<211> 1462
<212> DNA
<213> Homo sapiens

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<211> 2393
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

<400> 2563
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<210> 2564
<211> 372
<212> DNA
<213> Homo sapiens

<400> 2564
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<210> 2565
<211> 2731
<212> DNA

<213> Homo sapiens

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<222> (579)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1532)
<223> n equals a,t,g, or c

<220>
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<222> (2362)
<223> n equals a,t,g, or c

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<210> 2566
<211> 2783
<212> DNA
<213> Homo sapiens

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<211> 625
<212> DNA

PCT/US99/29530

<213> Homo sapiens

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<222> (623)
<223> n equals a,t,g, or c

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<211> 831
<212> DNA
<213> Homo sapiens

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<210> 2569
<211> 1468
<212> DNA
<213> Homo sapiens

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<222> (561)
<223> n equals a,t,g, or c

<400> 2569
gcttccatat cagaagcctt gacttaggag tcagacctgg gttcaaagcc tagtttcatc 60
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tttataatgt ggcatgaaca atacctgcct tgcagtgttg catgtggtga tgtgtcttgc 180
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ttcttcatgt gctgttacat gtacctagga acatatagct tagtagctta gcagcttagc 300
actaggcgct gggcacaaaa gggtggagag ggtgtgtgct tagccttttg wggctggtaa 360
ctctgggccc agagttgagg ggaatgattt gactggcgag gcagactctg cttggtccca 420
ttgtaaacca gtcatagaag agatgcctgt cctgggtagg ggccctctct tccttccggt 480
agtgctctga gcattgcctg gatgacaggc ctattgagca gtagcctggg acttgggagg 540

gaaactaggg ctggagagca nctctgggag gcattgggga gggcgtaggt ggatgagtca 600
ccatcctccc tcaaggacgt cttgggcaag ttgtctggcc ccattagcca gcaaccaggg 660
aaatgtagct gcaggaaaat cacctcgttt cctcgggatg ttttttctta ggctggtttc 720
ctttacaagc tgcaattatg ttccatccca cgcaattcag taagtggcac ttttcagaga 780
aactgtcttg gtgatcattt gggctgctgt gggccaggga gttgaggaga gaagggagtg 840
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gattgggctc agttgcagtt tcttgtattt ccctaccagc caagctgttg aagctgctga 960
gcccggaatg atgttatcac tgaggcagat gacaaaccct ctagttgcta gaaaccaaac 1020
tgctccccga gctggtgttt ccgtttttg tactgactgc ttatttgggc ttgatatata 1080
atggtgaaaa caggaactgt ttattttagg tgataagaaa ccaacattat gacaagaaga 1140
tgtcatctta gttactctgt taccagtacc ataggccaga tactatctag atgcttataa 1200
acatcttatc taatccttgt aataataagc cccaagctag gttttatatc cccattttat 1260
ggatggggga actgaggcca ataacttcat ataacttatc caaggccaca aaactagtaa 1320
taaacagagt gaaattcaac ccaaaaacaa actacaaatc caaatttctt tacctctatg 1380
ctgtctgtac ttgctgttac tagcaaagtt ctcttggtgg gagttacccc atcccctctc 1440
caaaaaaaaa aaaaaaaagg gcgrccac 1468

<210> 2570
<211> 1411
<212> DNA
<213> Homo sapiens

<400> 2570
gtttcaatcc aaatgttgat ttacttattc tgacacctca tgtcctcttt tagctctgca 60
cttttctgcc ctttattttt tggttcacac ttttttctaa gtatatgggt tcagatggcc 120
ttttacatga ttgaaaactg taaaggaaaa aggtagtagt caacagtaca atcatggctt 180
taataaccct ttattttatg tgacaccaaa aagaattgaa aaatacaagg attgcaattt 240
ttaaattatg acgtaggcag ctttgaatac atttatgtgt tttccctatc aaatgaaaat 300
ataaccatat attgtatata tatatatatc cttaaaaatt ggtttttctt acttgaatgt 360
taatttttaa aaatttataa tggcattgat taatgttgat gtgatttatt gaatctaatt 420
catgtaaaaa tgatatattg tgaactgtga tactttcatt atcacatcct gtgacataca 480
tggtagttat atgttgaatg ttgttgactg acttttattg actaggttac taaattttat 540
ctgaatttca tcttaactyt gtggccttta tatctcctaa gacatcttta tatacacttt 600
gaaagattaa agaatgtgga aaatatagtt gaataaaata actatgatgg tgggataatt 660
ttactaatgc aaataaaatt tattcgaagt taatctagaa aaaagttagt gtttatctag 720
ggtctattcc agtcttccag aagagttctt tgtctggtta acacaactgc tgtcccactg 780
cctactaggg ttaattaggt tgaccagcct ggctagtgag tatctgcttc ttccatttct 840
gcttgtggtt tctcctttac tcattgtgta tttggtgaag agggcagctt cccatatgga 900
gggggacctt cagtctaggc gatacyggaa rttcagcttc cactaataca taaattctgg 960
tttcattgac ctaatataat aaagttaaat ccacatatct gggtaaatat ctttttcctc 1020
gtgccgaatt cggcacgagg tcaaattaag gatataaact ttccacacct tcctgtcgtg 1080
acagataaaa gcacagaaag gacaaccctt gaaatcatgt aacgttggtc atttcaatat 1140
tttgtacctg ttttaaattc tgttagtgta tttacttcat tgtaaatatt tttgagggta 1200
cctttgtatt ttgcttttga ccttggttct gtgatttgga tgtcaacaac ttccctaaaa 1260
agcaccagtg tgttaggttc taatgtcatg acccaatttg tgttattcat ctttaatcct 1320
gttttcagtc tctatgtgta cagcagtatt tttaataaag aattacagag ataaatttga 1380
aaaaaaaaaa aaaaaaaact cgcggcacga g 1411

<210> 2571
<211> 875
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (521)
<223> n equals a,t,g, or c

<400> 2571
tcgagttttt ttttttttt tttaaatgaa aaactaactt gggaaataca ttctttgatg 60
gggctagcca cacatatgtt ttacaatact tggtctgcaa tgctgtcttt tgggtctgag 120

tttcttctca ggagggtatc tttgggccag caataacaat cattgttcag ttatacaaac 180
tttataattt ctgaagtaat ttcctataca tcatttcact tagtctttac aaaaacccta 240
tagagaaagc agggtaaagt ctgaaataat aaataataat cagttaatgg aaatagagta 300
tctacatcct ggaaatgatg gctatgttat acactatgct agctctagac attcttgtat 360
gtggatgaaa ttagcttcaa tacaaccata tgaacagatt gggtccagag gcagagggag 420
gcacacacag atcatttgac ttgcgtgctt cagatgagga aacacgcata gagggttaag 480
tggcttgcag aagggcaacc aytaggcagg ggtagagcag nacttgaaac tacacacacc 540
caacaaatag ttcccatatg tgcctggcct tggggtaggg agacagatgc aagaccagta 600
ggcccttcct ccaaggagct accagtcctg caggagaaag acatccctca ttattcaaat 660
aatacatttt caaattacaa tagcaagaag tgccctagaa aagaaaagag atctggggtt 720
tcttccactt gtgtctacag ccacaagccc tggccccagc tccctgctct ctctcctctg 780
atgcaggatt atacttgcag tctcagacac ccaagcaagg gttattcttg ggaaggggca 840
accacacggc ttctaatcct tctcgtgccg aattc 875

<210> 2572
<211> 1026
<212> DNA
<213> Homo sapiens

<400> 2572
ctatcagcaa agaggatttt gcaaagccac agaacaatgt gtgaccagca gaagcagcca 60
cagttccctc catcttgtgt gaaaggttcg ggactagggg ctgggcaggg tascaatggt 120
gcctctgtga aatgcccagt tccatgccag acccaaactg tctgtgtgac rggccctgct 180
ccatgcccta ctcaaactta tgtgaagtac caagttccat gccagactca aacctacgtg 240
aagtgcccag ctccctgcca gaggacctat gtgaaatacc caacaccctg ccaaacctat 300
gtgaagtgcc cagctccctg ccagacaacc tatgtaaaat gcccaactcc ctgccaaacc 360
tacgtgaagt gcccagctcc ctgccagatg acctacatca aaagtccagc tccctgccag 420
acccagacgt gctatgtcca gggtgcttct ccttgccaga gctattatgt tcaagctcct 480
gcaagtggct caacctccca gtactgtgtc actgacccat gctctgctcc ctgttccacc 540
agctactgct gtctggctcc ccggaccttc ggggtgagtc ccctgagacg ctggattcag 600
cggccccaga actgcaacac aggatcatct ggctgctgtg agaattcggg aagctctgga 660
tgctgtggtt ctgggggctg tggctgcagc tgtggatgtg gcagctctgg gtgctgctgt 720
ttgggaatta tccccatgag gtcccgaggt cctgcatgct gtgaccatga ggatgactgc 780
tgctgctaaa catacgacag ctcaactcca gaatgcactg ccccgctacc ccttctggaa 840
catgcaccag cttctggccc cytctctgtt agtgccagtg atgtagaacc tcatcamttt 900
gcctctgtgs tttgyttctc taccaaggca gcctgccaga gttagtamag tccccaaamt 960
ttggcatgaa taaagctctg aatgcatttc gtggtaaaaa aaaaaaaaaa aaaaaagggc 1020
ggccgc 1026

<210> 2573
<211> 596
<212> DNA
<213> Homo sapiens

<400> 2573
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catccttcca tccaacagag gcaagtttgg acctgccttg ccttttttctg cttttaacat 120
ttgtattcaa agttgtacac cattgtcaaa tgtataatgt agcagtaaat cattagagga 180
agtaagttaa gtcctgttaa tactgttctc aaatataaac atatttcttt aatctcttcc 240
ctatagtttt ttttttatag tgagataatg gagttggtct tagccgctgc aggagccctt 300
cttttctgtg gattcatcat ctatgacaca cactcactga tgcataaact gtcacctgaa 360
gagtacgtat tagctgccat cagcctctac ttggatatca tcaatctatt cctgcacctg 420
ttacggtttc tggaagcagt taataaaaag taattaaaag tatctcagct caactgaaga 480
acaacaaaaa aaatttaacg agaaaaaagg attaaagtaa ttggaagcag tatatagaaa 540
ctgtttcatt aagtaataaa gtttgaaacg attaaaaaaa aaaaaaaaaa aaaaaa 596

<210> 2574
<211> 695
<212> DNA
<213> Homo sapiens

pct-seq-eng.ST25

<220>
<221> SITE
<222> (6)
<223> n equals a,t,g, or c

<400> 2574
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ccgcccaggg acgtgtctgt gctcctgcgt gtgaccaggg ttgactaaac tcctgccagc 120
atgtcttgcc agcaaaacca gcagcagtgc cagccccctc ccaagtgtcc tcccaagtgt 180
accccaaaat gtccacctaa gtgtcccccc aaatgcccac cacagtgccc agctccatgt 240
ttccctgcag tctcttcttg ctgtggtccc agctctggga gctgctgtgg tcccagctct 300
gggggctgct gcagctctgg ggctggtggc tgctscctga gccaccacag gccccgtctc 360
ttccaccggc gccggcacca gagccccgac tgctgtgaga gtgaaccttc tgggggctct 420
ggctgctgcc asagctctgg gggctgctgc tgacctgggc tacagaagag ctcttgggac 480
tgaatggcca agaacctgct acggcctgat ggatactctt tccacttcct ctcattccat 540
tcattggttg gcagagacca caaagactca tggggctttc ctggaagaac ttcgtgcttg 600
atgtaacacc ccaattgcaa gtcttctttt cctcctttac ctcatgttat aataaagctc 660
tgatctctga ctcaaaaaaa aaaaaaaaaa aaaag 695

<210> 2575
<211> 871
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (555)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (585)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (744)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (837)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (843)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (847)
<223> n equals a,t,g, or c

<400> 2575
gaaatacata cctttatatg catatactat atacatacat atatgcatat acatttagaa 60
ataaaaacac cactattcta caaggggagt tttattttca ccatttcata gatgcggaac 120
caatgctccc tgatttccaa taacttgatc tttggatcgt agggtatgac cagcatgtta 180
ctcctggtcc gctggatccc aaagctcttg ctccttttat tatcctgcat ggcccctgga 240
tactggggca gaagccttct cttcctgatc ttaaaggctg gtctgtagaa cctgatcatc 300
tttcttctag gtaaggagca tcctggagcc aaacttcaga taccctgga gcattccctt 360

caccctcaaa cctgagctcc tcgccccact ccagagtgag ggtttggcca tcacctatgg 420
cctgctggag gagtgtggcc ttaggacgga gctggataac cccaggtcaa cctgggatgt 480
agaagcaaag atgcccctgt ctgccctcta tgggactctc tcgktgctgc agcarctggc 540
tgaggctaag ccctncctga tgggcagcag tccagagatg ctggncctcg sccagctatg 600
ctgtgagtgt ccytatgggt gcaagarata gggctgkgcc tctctgcgtt tccaggtgga 660
gtagagacag taatgggtag agactttagg aaatgttttg gggtggtgga atactctata 720
tattgacaag agtttatata ttgncaagag tttatatatt tgtcaaaact cctcaaatag 780
tatgttaaag acgtaagcgt ttcactatgt ataaatttta cttcaaaata ataaaancaa 840
atnctgnctc taaaaaaaaa aaaaaaaggg c 871

<210> 2576
<211> 843
<212> DNA
<213> Homo sapiens

<400> 2576
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tgcatttttc ctctttgacc actaaccatg tgaaattctc atattgacct ttataatgat 120
catgaactct tagtatcatt gggaaggcca catttgccac ttatgattgt aaaccttatc 180
ctccattttt cctgttattg ttggtgcaaa aagcacctat tataccagga ctttaaaaat 240
cagtctgata agtctttgat aagtctaata ataataactg ataagtccat tgaatttgct 300
tctgattact ttttctttag tagctaaaca tgtatgtact cctatgatta caatgaacac 360
tcctctccat ttaaattaat tatttacatt gatgaaatag caaaatgtta atgactaaat 420
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ttctttatgt gtgtgtgtgt gtgtattttt tttttttaa tttcaatggc ttttggggta 540
caaatggctt ttggtcatat agatgaattc tacagtagtg aagtctgaga ttttactgca 600
ccggtcacct gagtagtgta cattgtaccc aatatgtggt tttttatacc ttgccccccт 660
cttaccctcc ccactttgag tctctagtgt ccattatgtc actctgtata ccttttttgta 720
cccataagtt agctctcact tataagtgag aacacacagt atttggtttt ccattcctga 780
gttgcttcac ttagaataat atcctccagc tccatccaaa attgctgcaa aaaaaaaaaa 840
aaa 843

<210> 2577
<211> 2973
<212> DNA
<213> Homo sapiens

<400> 2577
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agctaacaag agctccctgg ggctggtcac agctggctca tgatgctgaa cttgaaagtt 120
tttttgtttt tgtttttgtt ttgtggctcc tccaagatat aggtacatga agtttaggtt 180
aaaggggtgg gattctttat ttttatтttt gtattgtatg tgtcaagaat tactctgttg 240
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cgtggaggag aggcctgggc tcctctactg gatctacact ctgtcccagg tttttagatc 420
ccactgagcc cagctgactg aaaacaagga cagtcagggt gaaacttctt ttgccagaag 480
tgtggcctga gttgaatttc tgggaggatg acgcagatgt ctgctgcaga gctgggctga 540
gagttctgca gtctagctct gacttaggtc aggggcctgt tggtctctca ttggacgttt 600
ttgggtctca ctcatgctta ctgaaacatt gtgccaagaa actctgtggg atttgtgtcc 660
cttaaaccag actcactttt ctgaaaaatc tccattgttg aggagaggct gctcaatcga 720
caccccgagt tctcatgact gggaagatag ttttcttcag gtgtcaatgg cgttagactc 780
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tcctccatgc ccctccagaa ggacctagga gagtaggtga gctttccaaa gtgagagacg 1500
aatctttctt tctttttttt tttaaagggc aggatgggta tgctttgggc tttctccttc 1560
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ccggaaacac ccaggaactg ttcagaaatc tcagaagaaa tctgcttctc ttcgatggaa 1680
agatataatt aacgatcaaa gagctctaag aaaattgcaa agaagcctta atgttcaagc 1740
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cgtcctttca aaggacaact gtcgggaagg gagagccgag ttgcgaggta ggaggggagc 2340
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ttccacaaag ttctcccagg caaggaccag ctgcccattc tgagcccagg gcagcctctt 2520
caaccattat tggtctaacc tggcttgtca ggaaaccaag cccacccttc cacattgggc 2580
ctggctgctc tattctgtac caagtactgg agaaaaagca tcaagttctt agcccttgta 2640
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gccggggaag ctgtaggggt ggatagagct ggctttcctt ctgggctgtc tccatctgac 2820
cctacccctt ccatgtccca ccccactccc accaaaaagt acaaaatcag gatgtttttc 2880
actgtccatt gctttgtgtt ttaataaaca atttgcagtg acaaaaaaaa aaaaaaaaaa 2940
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 2973

<210> 2578
<211> 536
<212> DNA
<213> Homo sapiens

<400> 2578
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ttaggttaag atgcagttgt tttgttttgc tttgtttttc ccttagctgg gttggggttt 120
ctagcagcaa tgatgtacag gtggatcttt tttcacatta acactaccag ctgctccatg 180
gctatagtgc ttaggaatat ctcagaattt caacagatct atcagctgca atatctagga 240
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tgtccagaat ttcaggctct gctttaaaaa ctaggctaca aaccctcatt cagaaagagg 420
tcagtaatat gcctgtgagt tagaaagata ctggaaacat ttcaatgcca aaagtaacat 480
ttttttccag aatgctatga ctaaattttt taaaaaaaaa aaaaaagggc ggccgc 536

<210> 2579
<211> 1898
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (265)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1854)
<223> n equals a,t,g, or c

<220>
<221> SITE

<222> (1859)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1888)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1897)
<223> n equals a,t,g, or c

<400> 2579
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acctccgaga gcagccccag aaactaaccc aacagcagaa agcggggctc cagcaccacc 180
aggacctgag caccccagtc ctgcggtccg atgtagatgc cctgcagcag gtggtggagg 240
aagctgtggg gcaggccctg ctggngccac cgtcacgctg accggcggct tccgcagggc 300
ctcatcctgt accaccagca ccagcacagc trctgtragt cccctacccg cctggcccaa 360
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ggggctgctg tgggggggatc cacgaggccc tgcccatcct ggaagccgtg agagtggact 480
tggtagttgc acccgtcagc cagttccctt tcgccctgct cggttggact ggctccaagc 540
ttttccagcg ggagctgcgc cgcttcagcc ggaaggagaa gggcctgtgg ctgaacagcc 600
atgggctgtt tgacccggag cagggaagca gcagtggcaa gactcctagg tcacggaagt 660
cctgcttctg ttgcagaaga catttttcca mgmggcttca gaggaagaca tcttcagaca 720
cctgggcctt gagtaccttc ctccagagca gagaaacgcc tgagcctgcc tgtktccccc 780
acttccactc aggaaattgg gctgccccca acctggccac tgaatgtctc caggcagata 840
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aattgtgcct gcaggatcag ttgagcccct gctggtgtgc tgcagggtgt gatgaggtgg 960
gagccctcag tgccagcctc atcactgtgt gaccctgggt ctgctcttag cctccccatg 1020
gctcacgttc ctgccctgga tgggatgtga gtggggccca catcgtggag ctgtggtggg 1080
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<210> 2580
<211> 1701
<212> DNA
<213> Homo sapiens

<400> 2580
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aaaaaaaaaa agggcggccg c 1701

<210> 2581
<211> 787
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (16)
<223> n equals a,t,g, or c

<400> 2581
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ctgtacttca gtttttttgta tttgtaaaaa tatatttgta ataatctcat agttaaaaaa 720
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tagctcg 787

<210> 2582
<211> 1030
<212> DNA

EFS Web - 09/05/2006

<213> Homo sapiens

<400> 2582
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ggatccaatg ggaaaagaac gttcacacgg actagaagac gaaaccaatg gaatggaaaa 240
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gcagaggcaa tggggtgaat cgtgctcaga ggcgcgctcc aatggggtag cagggctcgc 360
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ggcccagcag gcaactcctg ggggagcagc cccaaccatc ttctcccgga tcctggacaa 540
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<210> 2583
<211> 2770
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1570)
<223> n equals a,t,g, or c

<400> 2583
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ataaaatggc tggtgtgatg gcccagtgtg ggggcctgga atgcatgctt aacagactcg 360
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gttactgcgt gaaggtgaaa gtcaaccggc agcaactggt caaactggaa atgaacacct 480
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aaaaaaaaaa 2770

<210> 2584
<211> 598
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (597)
<223> n equals a,t,g, or c

<400> 2584
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tgaccagctt tttatgtatc agtgtttgat aaacacagtc cttaactgaa ggtaaaccaa 120
agcatcacgt tgacattaga ccaaatactt ttgattccca actactcgtt tgtyctttt 180
ctccttttgt gctttcccat agtgagaatt tttataaaga cttcttgctt ctytcaccat 240
ccatccttct cttttctgcc tcttacatgt gaatgttgag cccacaatca acagtggttt 300
tatttttcc tctactcaaa gttaaaactg accaaagtta ctggcttttt actttgctag 360
aacaacaaac tatcttatgt ttacatactg gtttacaatg ttatttatgt gcaaattgtc 420
aaaatgtaaa ttaaatataa atgttcatgc tttaccaaaa aaaaaaaaaa aaaamtcgag 480
ggggggcccg gtacccaatt cgccctatag tgagtcgtat tacaattcac tggccgtcgt 540
tttacaacgt cgtgactggg gaaaccctgg cgttacccaa cttaatcgcc ttgcagna 598

<210> 2585
<211> 2306
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (19)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (39)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (75)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (875)
<223> n equals a,t,g, or c

<400> 2585
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tcggggcctc tggagacttc cccctggagc ccgccaggcc gacactgctg cactcactct 180
gcaagggatc aggaccagca acctttatat tctagattct argacattgt acagagaaat 240
ycagaagtgt aaaaatattg cacattgaca aataccaaga atttttgcgt atgtttatat 300
tgtattgttc taaataatgg gtagcctgtg aaataagawc ktgccrccca tgtaataata 360
gtagtaatac takagttaaa atggctgtaa gaatagtttt ataaaagtga atacacagat 420
ctattgtatt tgaaacataa ctttgacaat tattagtgtg accaaagtat taggcggttt 480
tcatacattt tycaccttgt acaaaattat gaattcattt ttcctccagg ccgacaagga 540
gttgtagaat gaaaatgccc tctaagtgtt attttggttg ttctaactta caaaagtgat 600
tttgaataag aaatatttgg tgttcttttt ataaccagtt tttgattggt aattgttttc 660
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<210> 2586
<211> 91
<212> DNA
<213> Homo sapiens

<400> 2586
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catgatgtcc atgtaatcag gtagataaac c 91

<210> 2587
<211> 699
<212> DNA
<213> Homo sapiens

<400> 2587
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cataaatggg aactgatgta gaaggcagga tttagccctt ctaggcaaaa gaaaagctca 180
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gttaactgta ctgaaggtgt gtcctcaaga agaaagtgtt caaattaaaa aagctgctgc 660
caagtaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaa 699

<210> 2588
<211> 338
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> n equals a,t,g, or c

<400> 2588
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cagtatatat gctgaatgga ctgcttagca gtaacacact ggaaaaatcc aaaaagaatg 120
gatttcaagt tggcaaaaaa tgcattagaa gtcagcagtg tgatgtggtc aggagaacaa 180
ccagagtgac tgtgggatga ggtcttggat agactttgtt tctatataca gttcagccct 240
ctgtatccca tggtttctgc atccatggat tcaaccaacc aaggctcgaa aatattaaaa 300
aggaaaaaaa tccaaccata aaaaaaaaaa aaaaaaaa 338

<210> 2589
<211> 2789
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (754)
<223> n equals a,t,g, or c

<400> 2589
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gccacccagg ctcctggagc accccaaaag aattgcaagg cagtcccaag ttttgactcc 120
ctccatccag tgacaaatcc cattacatcc tctaggaaac tggaagaaat ggattccaaa 180
gagcagttct cttcctttag ttgtgaagat cagaaggaag tccgtgctat gtcacaggac 240
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<210> 2590
<211> 1145
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
<221> SITE
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<223> n equals a,t,g, or c

<220>
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<222> (1131)
<223> n equals a,t,g, or c

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<210> 2591
<211> 592
<212> DNA
<213> Homo sapiens

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cccttagaac tcaactggta gagcttctca tagcttacag ttccaagcaa tagcttggtt 420
gtaggtccag gcaggactct gacatggccc tctggaatag cattgatgtg ttgggttctt 480
cgctaagatg atttccagtc tgtgttccag ggagattcag gaaagctgaa gttcattctt 540
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<211> 2230
<212> DNA
<213> Homo sapiens

<400> 2592
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cagacctttc cccatctata tcgctctact catgcaccta attggaagcg ccaccctagc 2040
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<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
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<222> (38)
<223> n equals a,t,g, or c

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<221> SITE
<222> (116)
<223> n equals a,t,g, or c

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tagaaggtac gcctgcaggt acccggtccg gaattcccgg ggtcgaccca cggcgtccga 180
ttaattttag catccctctg gggatcttgc ctgcaatgat taatactgtg gtattctcat 240
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aaaaaaaaaa aaagggcggc cgc 1223

<210> 2594
<211> 1168
<212> DNA
<213> Homo sapiens

<400> 2594
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gtataaagaa aaaaaaaaaa aaaaaaaa 1168

<210> 2595
<211> 1193
<212> DNA
<213> Homo sapiens

<400> 2595
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ctccttgcaa ggtgtcttca tctgctgctg gttcaccatc ctttacctcc caagtcagag 180
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ccgtgcctct ctctgtactc cctcagtttc cttctctgta caatgtggct ggggagggag 360
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cctcgcttac tgttccagcc caggccaagc acagggtctg gctcgtggca aaccttgaat 1140
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<210> 2596
<211> 584
<212> DNA

<213> Homo sapiens

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tcactggcat cggttccaac cagacagact cactcaggca gttccccaat atagggaagg 480
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<210> 2597
<211> 896
<212> DNA
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<222> (885)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (886)
<223> n equals a,t,g, or c

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<210> 2598
<211> 2178
<212> DNA
<213> Homo sapiens

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<211> 2469
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (788)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (789)
<223> n equals a,t,g, or c

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<222> (792)
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<220>
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<220>
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<222> (1022)
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<220>
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<212> DNA
<213> Homo sapiens

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<211> 1122
<212> DNA
<213> Homo sapiens

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<211> 3357
<212> DNA
<213> Homo sapiens

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<211> 2443
<212> DNA
<213> Homo sapiens

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<221> SITE
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<223> n equals a,t,g, or c

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<221> SITE
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<223> n equals a,t,g, or c

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<222> (2375)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2434)
<223> n equals a,t,g, or c

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<211> 1599
<212> DNA
<213> Homo sapiens

<400> 2604
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<210> 2605
<211> 2175
<212> DNA
<213> Homo sapiens

<400> 2605
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gaattgggct agcctaaaat tattttgtga taaatacaac ttaatattta tcccaagtgt 480
gggcccagga tacatagata ccagcatccg tccatggaac acgcaaaaca ctcggaaccg 540
aatcaatggg aagtattatg aaattggtct gagtgccgca cttcagacac gccccagctt 600
aatttctatc acctctttta atgagtggca tgaaggaact cagattgaaa aagctgttcc 660
caaaagaacc agtaatacag tgtacctaga ttaccgtcct cataaaccag gtctttacct 720
agaactgact cgcaagtggt ctgaaaaata cagtaaggaa agagcaactt atgcattaga 780
tcgccagctg cctgtttctt aatgcattga ttaaagttta atagttatca aaatcaccta 840

09/530,549

attttaaaa atagctttcg ttttgagttc tggaaagaaa actgtcaaaa tcagtatata 900
ctattagtta tatttaaaaa tatttttta aattctttac agataatatt atacttgtta 960
cccttcacaa taccacatga gaaaatatct gagacaaaat gtatacaaat atattcctta 1020
tggcataatt tattgcattt ctgactgaaa tcaaaattct gatttgatgg caattgaatt 1080
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actttaagtt attttgacga aaagtaatag agaaaattta cttagcattt tagattctag 1860
agacatggaa atgaaaatta ttttatgtct agagtaggtc ctgaagtttg gctttacatt 1920
aagtttagca ctgtatcaga atgaagaaac taatatttta cataaaaact aatactttca 1980
atttttttata tagtaatatc cccatttttgt aaatgttaga cttttatcat acctgtaagt 2040
taaaatactt gttatcaata acttgtcatg ttgtgacaaa ttgatcactt gtgtacgaaa 2100
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aaaaaaaaaa aaaaa 2175

<210> 2606
<211> 1603
<212> DNA
<213> Homo sapiens

<400> 2606
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aggcctggtg attggggctg gcgcctgcta ttgcatttat agactgacta ggggaagaaa 180
acagaacaag gaaaaaatgg ctgagggtgg atctggggat gtggatgatg ctggggactg 240
ttctggggcc aggtataatg actggtctga tgatgatgat gacagcaatg agagcaagag 300
tatagtatgg tacccacctt gggctcggat tgggactgaa gctggaacca gagctagggc 360
cagggcaagg gccagggcta cccgggcacg tcgggctgtc cagaaacggg cttcccccaa 420
ttcagatgat accgttttgt cccctcaaga gctacaaaag gttctttgct tggttgagat 480
gtctgaaaag ccttatattc ttgaagcagc tttaattgct ctgggtaaca atgctgctta 540
tgcatttaac agagatatta ttcgtgatct gggtggtctc ccaattgtcg caaagattct 600
caatactcgg gatcccatag ttaaggaaaa ggctttaatt gtcctgaata acttgagtgt 660
gaatgctgaa aatcagcgca ggcttaaagt atacatgaat caagtgtgtg atgacacaat 720
cacttctcgc ttgaactcat ctgtgcagct tgctggactg agattgctta caaatatgac 780
tgttactaat gagtatcagc acatgcttgc taattccatt tctgactttt ttcgtttatt 840
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tcaccatgat tttttggtga aagtaaaagt tggaaaattc atggccaaac ttgctgaaca 1200
tatgttccca aagagccagg aataacacct tgattttgta atttagaagc aacacacatt 1260
gtaaactatt cattttctcc accttgttta tatggtaaag gaatcctttc agctgccagt 1320
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ggtttaagat ggataaatga atatcactac ttgttctgaa aacatgtttg ttgcttttta 1440
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tcatcatgag taagctccct tctgtcattt tcattgattt aatttgtgtg tcatcaataa 1560
aattgtatgt taatgctgga aagaaaaaaa aaaaaaaaaa aaa 1603

<210> 2607
<211> 1177
<212> DNA

<213> Homo sapiens

<220>
<221> SITE
<222> (1071)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1164)
<223> n equals a,t,g, or c

<400> 2607
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cgcaagaggt gaaacaagat gtgagagaca aggggtaggg aagaaatggg gcagcggtta 180
ggttcagaag cgcatagacc gtggcggacg ggcaatgcga ggggcacaga aaggaactga 240
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ccaggccgcg cgcggatatg tcgtccggaa accagcccag tctaggctgg atgatgaccc 360
acctccttct acgctgctca aagactacca gaatgtccct ggaattgaga aggttgatga 420
tgtcgtgaaa agactcttgt ctttggaaat ggccaacaag aaggagatgc taaaaatcaa 480
gcaagaacag tttatgaaga agattgttgc aaacccagag gacaccagat ccctggaggc 540
tcgaattatt gccttgtctg tcaagatccg cagttatgaa gaacacttgg agaaacatcg 600
aaaggacaaa gcccacaaac gctatctgct aatgagcatt gaccagagga aaaagatgct 660
caaaaacctc cgtaacacca actatgatgt ctttgagaag atatgctggg ggctgggaat 720
tgagtacacc ttccccccctc tgtattaccg aagagcccac cgccgattcg tgaccaagaa 780
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aaaggctgca gcagcagccc aaaaacaagc aaagcggagg aacccagaca gccctgccaa 900
agccatacca aagacactca aagacagcca ataaattctg ttcaatcatt tctttctgtc 960
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ccaggtggtg tgtgttcagt gggnggcaag acagagc 1177

<210> 2608
<211> 17
<212> PRT
<213> Homo sapiens

<400> 2608
Gln Thr His Tyr Tyr Asp Leu Pro Lys Asp Ser Leu Gln Val Val Asn
1 5 10 15

His

<210> 2609
<211> 40
<212> PRT
<213> Homo sapiens

<400> 2609
Met Arg Met Lys Thr Arg Thr Lys Thr Leu Arg Lys Ala Gln Met Leu
1 5 10 15

Phe Arg Leu Leu Thr Leu Arg Met Asp Leu Leu Val Leu Leu Leu Pro
20 25 30

Arg Leu Asp Cys Pro Gln Thr Arg

35 40

<210> 2610
<211> 5
<212> PRT
<213> Homo sapiens

<400> 2610
Met Lys Ala His His
1 5

<210> 2611
<211> 36
<212> PRT
<213> Homo sapiens

<400> 2611
Met Met Phe Ser Leu Leu Leu Thr Thr Cys Leu Ser Arg Lys Ala Cys
1 5 10 15

Gly Val Arg Met Met Trp Pro Ile Ser Met Trp Lys Gln Arg Lys Glu
20 25 30

Thr Asp Ile Ala
35

<210> 2612
<211> 36
<212> PRT
<213> Homo sapiens

<400> 2612
Met Met Phe Ser Leu Leu Leu Thr Thr Cys Leu Ser Arg Lys Ala Cys
1 5 10 15

Gly Val Arg Met Met Trp Pro Ile Ser Met Trp Lys Gln Arg Lys Glu
20 25 30

Thr Asp Ile Ala
35

<210> 2613
<211> 32
<212> PRT
<213> Homo sapiens

<400> 2613
Met Pro Ala Trp Lys Cys Pro Cys Ile Arg Gly Leu Leu His Ser Leu
1 5 10 15

Leu Leu Arg Glu Ala Ser Ala Ser Ala Gln Gly Val Cys Ala Ala Leu
20 25 30

<210> 2614
<211> 112
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2614
Met Pro Leu Phe Leu Ser Ile Pro Ser Leu Phe Leu Thr Leu Ser Gly
1 5 10 15

Leu Gly Leu Ala Val Gln Ser Pro Ala Gly Xaa Cys Trp Gly Leu Ser
20 25 30

Leu Cys Arg His Cys Val Phe Leu Arg Gly Cys Pro Gln Asn Thr Pro
35 40 45

Pro Ala Pro Trp Gly Ser Ser Gly Ser His Phe Ser Trp Ser Leu Arg
50 55 60

Ser Gln Lys Gln Leu Leu Gln Glu Ala Lys Lys Arg Leu Gly Trp Leu
65 70 75 80

Leu Val Leu Met Met Ala Phe Ile Leu Leu Gly His Phe Gly Tyr Ile
85 90 95

His Gly His Cys Phe His Leu Ser Phe Leu Pro Val Pro Pro Leu Pro
100 105 110

<210> 2615
<211> 40
<212> PRT
<213> Homo sapiens

<400> 2615
Met Gln Lys Phe Ile Gln Ala Met Leu Arg Lys Leu Leu Leu Met Gln
1 5 10 15

Met Met Cys Asp Trp Gln Ser Ser Ala Ala Leu Ile Ser Leu Leu Pro
20 25 30

Leu Leu Pro Gln Glu Ile Phe Tyr
35 40

<210> 2616
<211> 40

<212> PRT
<213> Homo sapiens

<400> 2616
Met Cys Phe Asn Phe Lys Tyr Phe Phe Leu Cys Gly Lys Cys His Val
1 5 10 15

Thr Ile Ala Leu Pro Ser Val Trp Thr Val Leu Val Leu Val Leu Ser
20 25 30

Val Tyr Gln Lys Ser Gly Cys Leu
35 40

<210> 2617
<211> 246
<212> PRT
<213> Homo sapiens

<400> 2617
Met Gln Pro Ser Trp Leu Thr Arg Cys Pro Thr Trp Pro Trp Pro Met
1 5 10 15

Gly Ala Ala Trp Pro Arg Arg Ala Arg Ser Trp Trp Ile Arg Thr Ser
20 25 30

Thr Ala Ser Ser Pro Ser Pro Ser Ser Ser Ile Thr Leu Leu Trp Thr
35 40 45

Pro Cys Met Trp Ala Glu Ser Trp Ala Cys Cys Ser Ser Pro Thr Tyr
50 55 60

Thr Arg Thr Gly Lys Cys Ser Thr Asn Arg Thr Pro Arg Trp Pro Pro
65 70 75 80

Ala Leu Thr Ser Met Pro Arg Thr Ser Thr Phe Gln Gln Trp Ala Phe
85 90 95

Ile Thr Tyr Val Leu Val Ala Gly Leu Ala Leu Gly Thr Gln Asp Arg
100 105 110

Phe Ser Pro Asp Leu Leu Gly Leu Gln Ala Ser Ser Ala Leu Ala Trp
115 120 125

Leu Thr Leu Glu Val Leu Ala Ile Leu Leu Ser Leu Tyr Leu Val Thr
130 135 140

Val Asn Thr Asp Leu Thr Thr Ile Asp Leu Val Ala Phe Leu Gly Tyr
145 150 155 160

Lys Tyr Val Gly Met Ile Gly Gly Val Leu Met Gly Leu Leu Phe Gly
165 170 175

Lys Ile Gly Tyr Tyr Leu Val Leu Gly Trp Cys Cys Val Ala Ile Phe
180 185 190

Val Phe Met Ile Arg Thr Leu Arg Leu Lys Ile Leu Ala Asp Ala Ala
195 200 205

Ala Glu Gly Val Pro Val Arg Gly Ala Arg Asn Gln Leu Arg Met Tyr

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    210                 215                 220

Leu Thr Met Ala Val Ala Ala Ala Gln Pro Met Leu Met Tyr Trp Leu
225                 230                 235                 240

Thr Phe His Leu Val Arg
                245
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<210> 2618
<211> 27
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2618
Val Phe Trp Pro Thr Ser Glu Xaa Leu Leu Asn Cys Met Val Trp Gly
  1   5   10   15

Arg Glu Gly Asn Leu Lys Ser Arg Pro Asn Lys
             20   25

<210> 2619
<211> 111
<212> PRT
<213> Homo sapiens

<400> 2619
Met Thr Glu Ser Phe Tyr Pro Leu Asn Gln Arg Lys Gln Asn Glu Asn
  1   5   10   15

Pro Ser Ala Val Leu Met His Leu Phe Leu Phe Ser Val Thr Met Gln
             20   25   30

Gln Val Ala Arg Thr Val Ala Lys Val Glu Leu Ser Asp His Val Cys
         35   40   45

Asp Val Val Phe Ala Leu Phe Asp Cys Asp Gly Asn Gly Glu Leu Ser
     50   55   60

Asn Lys Glu Phe Val Ser Ile Met Lys Gln Arg Leu Met Arg Gly Leu
 65   70   75   80

Glu Lys Pro Lys Asp Met Gly Phe Thr Arg Leu Met Gln Ala Met Trp
                 85   90   95

Lys Cys Ala Gln Glu Thr Ala Trp Asp Phe Ala Leu Pro Lys Gln
            100   105   110

<210> 2620
<211> 47
<212> PRT

<213> Homo sapiens

<400> 2620
Met Thr Pro Pro His Val Leu Leu Lys Gly Val Leu Val Val Ser Arg
1 5 10 15

Val Cys Val Ser Leu Leu Cys Cys Pro Pro Gly Cys Ser Val Cys Cys
20 25 30

Pro Leu Pro Pro Gly Gly Ser Pro Cys Phe Ser Pro Ile Tyr Ser
35 40 45

<210> 2621
<211> 48
<212> PRT
<213> Homo sapiens

<400> 2621
Met Asn Ser Trp Lys Phe Gly Gly Leu Cys Leu Leu Leu Ile Ile Ser
1 5 10 15

Val Trp Leu Lys Gln Ser Trp His Gln Gly Arg Val Cys Cys Asp Asp
20 25 30

Ser Arg Glu Gly Asp Ser Gln Gly Val Ala His Gln Ala His Glu Ala
35 40 45

<210> 2622
<211> 25
<212> PRT
<213> Homo sapiens

<400> 2622
Met Val Cys Ile Phe Lys Thr Glu Asp Val Leu Pro Phe Leu Leu Leu
1 5 10 15

Phe Phe Leu Phe Ser Phe Phe Phe Phe
20 25

<210> 2623
<211> 104
<212> PRT
<213> Homo sapiens

<400> 2623
Met Val Ala Gly Thr Pro Cys Phe Leu Pro Leu Leu Ser Ala Cys Val
1 5 10 15

Thr His Ile Asn Gly Asn Asn Phe Phe Gln Leu Leu Ala Glu Val Gly
20 25 30

Glu Ala Gly Ser Leu His Arg Glu Gly Leu Ser Ser Leu Leu Leu Pro

```
         35                  40                  45

Ala Ser Phe Cys Phe Gly Cys Arg Glu Trp Phe Ile His Thr Leu Ile
     50                  55                  60

Pro Ser Pro Pro Leu Val Asp Gly Gly Leu Ala Phe Ser Ile Pro Val
 65                  70                  75                  80

Phe Trp Cys Leu Pro Leu Ser Ala Thr Leu Asn His Leu Ser Trp Ser
                 85                  90                  95

Cys Cys Val Met Gly Thr Cys Leu
            100
```

WO 2004/050683 PCT/US2003/038539

<210> 2624
<211> 19
<212> PRT
<213> Homo sapiens

<400> 2624
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Val Cys Leu Leu Cys Ile Pro Gly Ala Gln Asn Arg Ala Trp His Ile
  1               5                  10                  15

Val Gly Ala
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<210> 2625
<211> 83
<212> PRT
<213> Homo sapiens

<400> 2625
```
Met Ile Phe Leu Arg Lys Ala Ile Leu Leu Gln Leu Phe Pro Lys Ser
  1               5                  10                  15

Cys Ser Gly Asn Gly Trp Ser Ser Tyr Ser Gln Trp Arg Gly Glu Gln
            20                  25                  30

Val Gly Leu Gly Ile Tyr Leu Phe Arg Leu Leu Val Gly Trp Ser Trp
        35                  40                  45

Gly Ile Glu Ile Asn Gln Glu Asp Val Ser Thr Lys Pro Ala Val Ser
     50                  55                  60

Gln Leu Arg Glu Cys Leu Gly Ser Gln Glu Thr Trp Thr Gly Gly Val
 65                  70                  75                  80

Trp Val Asp
```

<210> 2626
<211> 104
<212> PRT
<213> Homo sapiens

<400> 2626
Met Glu Asn Ser Leu Leu Ala Met Phe His Glu Ser Arg Ile Leu His
1 5 10 15

Leu Trp Ala Ala Leu Phe Leu Val Glu Leu Leu Gln Glu Val Pro Ile
20 25 30

Met Thr Cys Ser Asn Ala Asn Thr Pro Ser Val Asn Thr Gly Tyr Phe
35 40 45

Lys Leu Ser Ser Val Ala Thr Thr Leu Arg Gln Gln Gln Leu Val Leu
50 55 60

Glu Ile Ser Leu Met Ser Val Pro Pro Gly Cys Gly Pro Leu Leu Pro
65 70 75 80

Val Leu Ile Pro Val Ala Ser Phe Cys Cys Ile Ile Thr Ile Trp Leu
85 90 95

Leu Ile Leu Met Phe Glu Lys Asp
100

<210> 2627
<211> 59
<212> PRT
<213> Homo sapiens

<400> 2627
Leu Leu Gly Thr Trp Leu Cys Pro Gln Leu Pro Pro Gly Leu Gly Ala
1 5 10 15

His His Ala Pro Ser Ser Phe Ser Ser Tyr Leu Cys Pro Val Ser Pro
20 25 30

Ser Ile Arg Leu Ser Asp Gly Thr Leu Trp Glu Arg Leu Trp Pro Trp
35 40 45

Ser Gly Gly Arg Glu Gln Gly Gly Arg His Lys
50 55

<210> 2628
<211> 36
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2628
Met Gly Val Phe Phe Ile Leu Arg Xaa Leu Thr Ser Gln Cys Phe Leu
1 5 10 15

Ser Trp Phe Leu Gly Phe Val Ser Ala Glu Ser Phe Glu Gln Trp Ser
20 25 30

Ile Ser Gly Ser
35

<210> 2629
<211> 29
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2629
Met Cys Cys His Ile Xaa Gln Ile Ala Thr Val Leu Leu Leu Ser Leu
1 5 10 15

Cys Trp Leu Cys Ala Thr Leu Met Val Pro Arg Asn Arg
20 25

<210> 2630
<211> 51
<212> PRT
<213> Homo sapiens

<400> 2630
Met Pro Trp Phe Val Pro Leu Val Ser Trp Glu Glu Leu Ala Pro Ala
1 5 10 15

Gln Leu Ser Cys His Trp Pro Phe Arg Val Gly Leu Gly Pro Glu Cys
20 25 30

Leu Leu Val Ala Ser His Gly Gly Leu Met Ala Gln Pro Ser Pro Lys
35 40 45

Arg Ala Gln
50

<210> 2631
<211> 27
<212> PRT
<213> Homo sapiens

<400> 2631
Met Ala Leu Ala Gly Phe Phe Leu Pro Trp Thr His Cys Cys Arg Leu
1 5 10 15

Ser Leu Lys Phe Leu Cys Gly Val Thr Arg Ser
20 25

<210> 2632
<211> 15
<212> PRT

<213> Homo sapiens

<400> 2632
Met Leu Ile Val Leu Leu Ile Asn Leu Ser Ser Glu Pro Ser Cys
1 5 10 15

<210> 2633
<211> 3
<212> PRT
<213> Homo sapiens

<400> 2633
Met Ser Thr
1

<210> 2634
<211> 32
<212> PRT
<213> Homo sapiens

<400> 2634
Met Tyr Val Asn Leu Asn Thr Val His Asp Ala Leu Leu Tyr Leu Leu
1 5 10 15

Leu Leu Leu Leu Ile Met Asp Lys Met Trp Met Gly Ala Glu Arg Glu
20 25 30

<210> 2635
<211> 39
<212> PRT
<213> Homo sapiens

<400> 2635
Met Phe Gln Leu Cys Leu Glu Ile Phe Gln Phe Phe Val Ser Val Phe
1 5 10 15

Ile Ser Phe Leu Glu Ser Leu Ala Glu Phe Gln Glu Thr Val Ala His
20 25 30

Leu Leu Val Met Lys Cys Phe
35

<210> 2636
<211> 126
<212> PRT
<213> Homo sapiens

<400> 2636
Met Glu Arg Leu Gly Val Leu Trp Thr Leu Leu Val Ser Arg Trp Phe
1 5 10 15

Ile Cys Leu Phe Val Asp Ile Leu Pro Val Glu Thr Val Leu Arg Ile
20 25 30

Trp Asp Cys Leu Phe Asn Glu Gly Ser Lys Ile Ile Phe Arg Val Ala
35 40 45

Leu Thr Leu Ile Lys Gln His Gln Glu Leu Ile Leu Glu Ala Thr Ser
50 55 60

Val Pro Asp Ile Cys Asp Lys Phe Lys Gln Ile Thr Lys Gly Ser Phe
65 70 75 80

Val Met Glu Cys His Thr Phe Met Gln Val Cys Gly Ala Ala Arg Gly
85 90 95

Ser Val Pro Ser Gln Gly Ala Pro Pro His Leu Gln Pro Gly Gly Cys
100 105 110

Ser Asp His Pro Glu Gly Ala Gln Asp Gly His Gln Trp Ala
115 120 125

<210> 2637
<211> 35
<212> PRT
<213> Homo sapiens

<400> 2637
Met Lys Leu Ser Cys Cys Phe Phe Gly Ala Leu Glu Trp Thr Phe Leu
1 5 10 15

Ala Ala Val Thr Leu Gly Pro Leu Pro Ser Arg Val Leu Leu Cys His
20 25 30

Arg Gly Cys
35

<210> 2638
<211> 31
<212> PRT
<213> Homo sapiens

<400> 2638
Met Leu Leu Cys Val Leu Ile Val His Cys Phe Leu Phe Leu Asn Ser
1 5 10 15

Leu Ala Leu Tyr Gly Cys Pro Thr Val Val Tyr Pro Leu Ala Ser
20 25 30

<210> 2639
<211> 15
<212> PRT
<213> Homo sapiens

<400> 2639

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Met Asn Ser Gly Gly Ser Gly Trp Cys Gly Pro Ser Ser Ser Ser
  1               5                  10                  15
```

<210> 2640
<211> 32
<212> PRT
<213> Homo sapiens

<400> 2640

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Met Leu Ser Leu Ala Leu Leu Trp Pro Ile Phe Ile Leu Phe Thr Val
  1               5                  10                  15

Gln Cys His Leu Phe Gly Asn Thr Gln His Gln Arg Val Leu Pro Asn
             20                  25                  30
```

<210> 2641
<211> 32
<212> PRT
<213> Homo sapiens

<400> 2641

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Met Leu Ser Leu Ala Leu Leu Trp Pro Ile Phe Ile Leu Phe Thr Val
  1               5                  10                  15

Gln Cys His Leu Phe Gly Asn Thr Gln His Gln Arg Val Leu Pro Asn
             20                  25                  30
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<210> 2642
<211> 46
<212> PRT
<213> Homo sapiens

<400> 2642

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Met Asn Phe Phe Leu Gly Leu Trp Leu Leu Tyr Ile Leu Tyr Ile Leu
  1               5                  10                  15

Arg Ile Leu Tyr Thr Ile Leu Ile Tyr Cys Asn Thr Ala Val Phe Asp
             20                  25                  30

Asn Leu Asp Ser Ile Trp Tyr Met Asn Phe Cys Ile His Tyr
         35                  40                  45
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<210> 2643
<211> 66
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (61)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2643
Met Lys Arg Thr Leu Leu Ser Ser Val Ile Cys Leu Ser Ala Ser Pro
1 5 10 15

Ala Gln Gly Gln Ala Pro Trp Gln Cys Pro Ala Val Thr Gly Asp Ser
20 25 30

Ala Glu Val Thr Tyr Pro Glu Lys Pro Leu His Gly Leu Ser Arg Arg
35 40 45

Glu Lys Thr Ala Leu Pro Gly Pro Trp Phe Gly Leu Xaa Arg Gly Lys
50 55 60

Gly Pro
65

<210> 2644
<211> 38
<212> PRT
<213> Homo sapiens

<400> 2644
Met Ile Leu Ser Val Leu Arg Asn Thr Gly Leu Cys Thr Ser Leu Phe
1 5 10 15

Met Gly Leu Trp Ile Leu Phe Ile Leu Arg Pro Val Tyr Asn Cys Phe
20 25 30

Leu Pro Lys Gly Ile Val
35

<210> 2645
<211> 57
<212> PRT
<213> Homo sapiens

<400> 2645
Met Gly Leu Leu Tyr Met Val Leu Leu Lys Ser Ile Val Phe Phe Ser
1 5 10 15

Gly Val Ser Glu Glu Leu Lys Ala Tyr Gly Val Gly Leu Gln Thr Val
20 25 30

Ile Glu Phe Leu Gln Asn Thr Arg Phe Trp Ala Trp Arg Trp Ile Ser
35 40 45

Gln Ala Leu Leu Gly Leu Ala Leu Lys
50 55

<210> 2646

<211> 55
<212> PRT
<213> Homo sapiens

<400> 2646
Met Glu Ser Leu Gly Pro Asp Ile Trp Leu Ile Ser Gly Ile Ala Ser
1 5 10 15

Ser Pro Ser Phe Leu His Val Leu Val Val Val Val Val Gly Glu Cys
20 25 30

Gly Trp Gly Met Ser Trp Leu Met Pro Ala Lys Ile Ser Ser His Pro
35 40 45

Pro Cys Leu Ser Ser Leu Phe
50 55

<210> 2647
<211> 27
<212> PRT
<213> Homo sapiens

<400> 2647
Met Gly Ala Leu Val Glu Leu Leu Tyr Ile Phe Pro Phe Leu Leu Pro
1 5 10 15

Ser Phe Leu Ser Glu Lys Leu Leu Glu Lys Lys
20 25

<210> 2648
<211> 36
<212> PRT
<213> Homo sapiens

<400> 2648
Met Pro Ala Gly Val Gly Trp Trp Val Cys Leu His Val Arg Val Cys
1 5 10 15

Leu Gly Ser Phe Lys Gly Glu Arg Gly Thr His His His Ala Gly Ser
20 25 30

Ala Leu Lys Arg
35

<210> 2649
<211> 34
<212> PRT
<213> Homo sapiens

<400> 2649
Met Leu Cys Leu Ile Ala Ile Leu Leu Tyr Val Leu Val Gln Tyr Leu
1 5 10 15

Val Asn Pro Gly Val Leu Arg Thr Asp Pro Arg Tyr Glu Ala Ala Pro
20 25 30

Gly Pro

<210> 2650
<211> 45
<212> PRT
<213> Homo sapiens

<400> 2650
Met Cys Ile Leu Cys Tyr Thr Gln Gly Pro Lys Phe Leu Gln Leu Phe
1 5 10 15

Ile His Ala Ile Val Leu Leu Phe Ala Glu Met Glu Ile Ile Tyr Thr
20 25 30

Glu Leu Gln Ile Pro Glu Met Phe His Leu Tyr Leu Ile
35 40 45

<210> 2651
<211> 23
<212> PRT
<213> Homo sapiens

<400> 2651
Cys Leu Gln Trp Phe Val Pro Leu Val Pro Gln Gln Ile Pro Glu Leu
1 5 10 15

Ile Leu Met Thr Ile Trp Lys
20

<210> 2652
<211> 123
<212> PRT
<213> Homo sapiens

<400> 2652
Met Val Trp Gln Pro Phe Phe Tyr Leu Phe Asn Gln Glu Asp Ala Gly
1 5 10 15

Glu Leu Cys Cys Leu Ser Cys Trp Leu Val Ala Ala Leu Cys Pro Gly
20 25 30

Val Cys Met Trp Val Tyr Leu Glu Leu Leu Ser Leu Pro Ser His Cys
35 40 45

Lys Leu His Pro Asp Glu Thr Ala Val Val Leu Gly Leu Phe His Leu
50 55 60

Ser Leu Pro Val Pro Ala Ser Ser Trp Leu Ser Cys Ala Trp Asp Met
65 70 75 80

Gly Leu Pro Ile Cys Val Phe Ser Lys Ser Gly Ala Asp Gln Glu His
85 90 95

```
Thr Lys Val Trp Ser Cys Ile Ile Thr Asn Ile His Ser Ser Gly Thr
            100                 105                 110

Phe Leu Arg Tyr Ile Tyr Lys Ser Phe Gln Gln
        115                 120
```

<210> 2653
<211> 123
<212> PRT
<213> Homo sapiens

<400> 2653

```
Met Val Trp Gln Pro Phe Phe Tyr Leu Phe Asn Gln Glu Asp Ala Gly
  1               5                  10                  15

Glu Leu Cys Cys Leu Ser Cys Trp Leu Val Ala Ala Leu Cys Pro Gly
             20                  25                  30

Val Cys Met Trp Val Tyr Leu Glu Leu Leu Ser Leu Pro Ser His Cys
         35                  40                  45

Lys Leu His Pro Asp Glu Thr Ala Val Val Leu Gly Leu Phe His Leu
     50                  55                  60

Ser Leu Pro Val Pro Ala Ser Ser Trp Leu Ser Cys Ala Trp Asp Met
 65                  70                  75                  80

Gly Leu Pro Ile Cys Val Phe Ser Lys Ser Gly Ala Asp Gln Glu His
                 85                  90                  95

Thr Lys Val Trp Ser Cys Ile Ile Thr Asn Ile His Ser Ser Gly Thr
            100                 105                 110

Phe Leu Arg Tyr Ile Tyr Lys Ser Phe Gln Gln
        115                 120
```

<210> 2654
<211> 87
<212> PRT
<213> Homo sapiens

<400> 2654

```
Met Leu Leu Ala Asn Leu Arg His Gly Gly Thr Val Asp Glu Tyr Leu
  1               5                  10                  15

Gln Asp Gln Leu Ile Val Phe Met Ala Leu Ala Asn Gly Val Ser Arg
             20                  25                  30

Ile Lys Thr Gly Pro Val Thr Leu His Thr Gln Thr Ala Ile His Phe
         35                  40                  45

Ala Glu Gln Ile Ala Lys Ala Lys Phe Ile Val Lys Lys Ser Glu Asp
     50                  55                  60

Glu Glu Asp Ala Ala Lys Asp Thr Tyr Ile Ile Glu Cys Gln Gly Ile
 65                  70                  75                  80
```

Gly Met Thr Asn Pro Asn Leu
85

<210> 2655
<211> 31
<212> PRT
<213> Homo sapiens

<400> 2655
Met Leu Val Phe Val Leu Leu Trp Ile Ser His Leu Phe Ser Gly Arg
1 5 10 15

Ser Glu His Cys Ser Leu Val Gln Ser Ser Tyr Phe Pro Ser Ser
20 25 30

<210> 2656
<211> 41
<212> PRT
<213> Homo sapiens

<400> 2656
Met Ala Ala Asn Ala Asn Ile Leu Trp Asn Ser Ser Lys Ser Thr Arg
1 5 10 15

Asp Pro Gly Trp Phe Phe Val Leu Phe Ser Leu Phe Phe Pro Pro Ser
20 25 30

Pro Glu Ser Ala Gly Met Glu Gly Gly
35 40

<210> 2657
<211> 35
<212> PRT
<213> Homo sapiens

<400> 2657
Met Thr Ile Ile Cys Leu Leu Phe Leu Thr Leu Leu Leu Leu Leu Phe
1 5 10 15

Lys Gly Ile Val Gln Ser Ser Ile Leu Tyr Leu Trp Gln Gln Val Lys
20 25 30

Val Ser Arg
35

<210> 2658
<211> 17
<212> PRT
<213> Homo sapiens

<400> 2658
Leu Leu Cys Val Leu Ala Gly Leu Thr Leu Leu His His Cys Gln Leu
1 5 10 15

Ala

<210> 2659
<211> 58
<212> PRT
<213> Homo sapiens

<400> 2659
Met Gln Gln Lys Glu Pro Trp Ala Trp Ser Met Gln Asn Trp Phe Leu
1 5 10 15

Leu Gln Leu Leu Leu Leu Val Gly Ser Gly Arg Lys His Ile Glu Phe
20 25 30

Met Ile Met Val Asn Leu Trp Arg Glu Arg Gly Asp Gln Asp Glu Gly
35 40 45

Ala Ser Arg Arg Ser Cys Ser Ser Val His
50 55

<210> 2660
<211> 19
<212> PRT
<213> Homo sapiens

<400> 2660
Lys Phe Trp Phe Ala Phe Glu Leu Phe Leu Phe Met Trp Leu Leu Ile
1 5 10 15

Ile Ser Ser

<210> 2661
<211> 32
<212> PRT
<213> Homo sapiens

<400> 2661
Met Val Leu His Phe Leu Asp Thr Ile Leu Ile Phe Leu Ile Pro Pro
1 5 10 15

Pro Thr Phe Gln Ile Ala Ser Leu Met Pro Gln Arg Leu Leu Cys Pro
20 25 30

<210> 2662
<211> 65
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2662
Met Val Pro Leu Leu Phe Leu Pro Leu Asp Ser Trp Leu Trp Arg Glu
1 5 10 15

Lys Lys Tyr His Leu Leu Asp Ala Asp Ser Glu Xaa Ile Tyr Ser Pro
20 25 30

Leu Glu Asn Ser Ala Leu Pro Ala Ser Xaa Cys His Leu Ala Gly Ala
35 40 45

Ile Thr Glu Ser Ser Lys Gly His Pro Ile Ile Leu Leu Gly Gln Leu
50 55 60

Leu
65

<210> 2663
<211> 18
<212> PRT
<213> Homo sapiens

<400> 2663
Met Glu Val Phe Leu Tyr Leu Gly Val Val Gly Phe Trp His Ile Gly
1 5 10 15

Ile Ser

<210> 2664
<211> 30
<212> PRT
<213> Homo sapiens

<400> 2664
Met Asn Phe Gln Val Trp Gly Thr Gly Gln Cys Thr Phe Leu Ser Leu
1 5 10 15

Phe Ile Leu Leu Phe Leu Lys Ile Cys Asn Thr Tyr Gln Arg
20 25 30

<210> 2665
<211> 32
<212> PRT
<213> Homo sapiens

<400> 2665
Met Ile Ser Arg Gly Ile Thr Ile Tyr Leu Thr Val Leu Leu Thr Tyr
1 5 10 15

Thr Val Val Leu Phe Tyr Leu Phe Lys Ser Gly Phe Ser Ala Phe His
20 25 30

<210> 2666
<211> 32
<212> PRT
<213> Homo sapiens

<400> 2666
Met Ala Leu Gln Ala Phe Ser Ser Leu Leu Leu His Ile Leu Ser Thr
1 5 10 15

Ser Thr His Tyr Pro Val Pro Lys Pro Leu Pro His Phe Gln Ala Leu
20 25 30

<210> 2667
<211> 37
<212> PRT
<213> Homo sapiens

<400> 2667
Met Val Ser Val Ser Arg Gln Thr Leu Val Thr Phe Ser Leu Val Tyr
1 5 10 15

Val Pro Phe Leu Leu Leu His Ile Phe Gly Ser Lys Ser Tyr Trp Leu
20 25 30

Asn Gln Gln Gly Leu
35

<210> 2668
<211> 36
<212> PRT
<213> Homo sapiens

<400> 2668
Met Pro Gly Lys Leu Asn Pro Cys Leu Leu Trp Leu Leu Ile Leu Met
1 5 10 15

Leu Phe Lys Lys Cys Lys Lys Ala Ser Leu Val Ser Lys Arg Ser Trp
20 25 30

Ile Tyr Ile Ala
35

<210> 2669
<211> 25
<212> PRT
<213> Homo sapiens

<400> 2669
Met Lys Lys Arg Leu Ser Pro Leu Ser Trp Ala Arg Cys Cys Leu Cys
1 5 10 15

Phe Trp Leu Gln Val Gly Thr Thr Asn
20 25

<210> 2670
<211> 17
<212> PRT
<213> Homo sapiens

<400> 2670
Met Leu Ser Pro Gly Arg Cys Phe Ala Ile Trp Ser Leu Phe Leu Cys
1 5 10 15

Ser

<210> 2671
<211> 65
<212> PRT
<213> Homo sapiens

<400> 2671
Met Pro Phe Trp Ile Leu Pro His Val Asp Cys Leu Cys Val Cys Met
1 5 10 15

Phe Gly Val Arg Met Cys Glu Thr Leu Leu Trp Phe Trp Glu Ser Glu
20 25 30

Leu Tyr Arg Thr Val Tyr Lys Met Ser Leu Pro His His Pro Tyr Ser
35 40 45

Ala Leu Leu Thr Leu Phe Phe Pro Pro Ser Ser His Ser His Ser Ser
50 55 60

Phe
65

<210> 2672
<211> 9
<212> PRT
<213> Homo sapiens

<400> 2672
Met Phe Met Met Ser Val Tyr Ile Leu

1 5

<210> 2673
<211> 41
<212> PRT
<213> Homo sapiens

<400> 2673
Met Ser Met Cys Lys Val Arg Arg Gly Ser Leu Asn Tyr Leu Leu Leu
1 5 10 15

Phe Trp Leu Thr Ser Pro Ile Phe Lys Thr Leu Ser Asn Ser Gln Asn
20 25 30

Leu Leu Met Arg His Val Val Leu Asn
35 40

<210> 2674
<211> 66
<212> PRT
<213> Homo sapiens

<400> 2674
Trp Leu Arg Phe Trp Cys Val Phe Ser Ser Cys Ser Gln Leu Gly Leu
1 5 10 15

Gly Leu Pro Lys Arg Trp Ile Ser Val Ser Thr Lys Ile Gln Gln Ile
20 25 30

Ile Thr Val Ser Pro Phe Asn Pro Phe Arg Asp Lys Val Arg Ile Ile
35 40 45

Tyr Asn Gly Thr Leu Ala Leu Gln Gly Leu Phe Thr Trp Tyr Leu Ser
50 55 60

Tyr Tyr
65

<210> 2675
<211> 39
<212> PRT
<213> Homo sapiens

<400> 2675
Met Gly Ala Ser Gln Cys Pro Phe Ala Ala Ala Leu Arg Pro Leu His
1 5 10 15

Phe Leu Leu Trp Val Ala Ala Leu Leu Gly Leu Gln Gln Pro Leu Gln
20 25 30

Arg Leu Gln Leu Arg Asn Ala
35

<210> 2676
<211> 35
<212> PRT
<213> Homo sapiens

<400> 2676
Met Ser Ile Gln Ile Ile Cys Cys Leu Trp Phe Phe Leu Tyr Leu Ile
1 5 10 15

Thr Cys Gln Lys Pro Ser Leu Pro Leu Asp Phe Phe Ile Leu Pro Ser
20 25 30

Ser Glu Val
35

<210> 2677
<211> 30
<212> PRT
<213> Homo sapiens

<400> 2677
Met Trp Gln Ile Ala Met Ile Thr Leu Trp Ser Leu Leu Val Ser Gly
1 5 10 15

Asn His Gln Leu Glu Leu Arg Met Leu Asp Thr Val Pro Arg
20 25 30

<210> 2678
<211> 39
<212> PRT
<213> Homo sapiens

<400> 2678
Met Phe Gln Asp Ile Leu Ala Leu Cys Leu Trp Leu Leu Pro Gly Val
1 5 10 15

Trp His His Ser Val Val Thr Tyr Asn His Cys Leu Gly Thr His Arg
20 25 30

Val Asn Cys Leu Ser Asp Lys
35

<210> 2679
<211> 33
<212> PRT
<213> Homo sapiens

<400> 2679
Met Asp Tyr Phe Leu Leu Ala Arg Ala Asp Pro Asn Ala Leu Pro Trp
1 5 10 15

Glu Pro Ala Glu Phe Cys Pro Val Leu Leu Leu Ala Val Thr Gly Gln
20 25 30

His

<210> 2680
<211> 3
<212> PRT
<213> Homo sapiens

<400> 2680
Met Cys Ala
1

<210> 2681
<211> 33
<212> PRT
<213> Homo sapiens

<400> 2681
Met Ile Trp Ser Ile Val Thr Cys Trp Ile Cys Val Cys Thr Gly Val
1 5 10 15

Phe Met Gln Gly Arg Leu Asn Ser Gln Val Arg Gly Glu Ser Glu Pro
20 25 30

His

<210> 2682
<211> 34
<212> PRT
<213> Homo sapiens

<400> 2682
Met Thr Val Ser Phe Val Met Arg Phe Leu Ala Leu Ile Ser Asn Ser
1 5 10 15

Phe Phe Leu Pro Leu Ser Leu Gly Ala Thr Pro Asp Pro Cys Gln Val
20 25 30

Phe Leu

<210> 2683
<211> 33
<212> PRT
<213> Homo sapiens

<400> 2683
Met Ser Ala Ser Ile Leu Cys Ser Phe Val His Ser Val Phe Phe Ile
1 5 10 15

Ser Gly Cys Phe Ser Val Val Phe Arg Lys Met Ile Ile Thr Leu Phe
20 25 30

Met

<210> 2684
<211> 180
<212> PRT
<213> Homo sapiens

<400> 2684
Met His Gln Cys Glu Ile Trp Arg Glu Leu Phe Ser Pro Leu His Ala
1 5 10 15

Leu Asn Phe Gly Ile Gly Gly Asp Gly Thr Gln His Val Leu Trp Arg
20 25 30

Leu Glu Asn Gly Glu Leu Glu His Ile Arg Pro Lys Ile Val Val Val
35 40 45

Trp Val Gly Thr Asn Asn His Gly His Thr Ala Glu Gln Val Thr Gly
50 55 60

Gly Ile Lys Ala Ile Val Gln Leu Val Asn Glu Arg Gln Pro Gln Ala
65 70 75 80

Arg Val Val Val Leu Gly Leu Leu Pro Arg Gly Gln His Pro Asn Pro
85 90 95

Leu Arg Glu Lys Asn Arg Gln Val Asn Glu Leu Val Arg Ala Ala Leu
100 105 110

Ala Gly His Pro Arg Ala His Phe Leu Asp Ala Asp Pro Gly Phe Val
115 120 125

His Ser Asp Gly Thr Ile Ser His His Asp Met Tyr Asp Tyr Leu His
130 135 140

Leu Ser Arg Leu Gly Tyr Thr Pro Val Cys Arg Ala Leu His Ser Leu
145 150 155 160

Leu Leu Arg Leu Leu Ala Gln Asp Gln Gly Gln Gly Ala Pro Leu Leu
165 170 175

Glu Pro Ala Pro
180

<210> 2685
<211> 35
<212> PRT
<213> Homo sapiens

<400> 2685
Met Lys Met Asn Lys Leu Phe Trp Ile Arg Ile Leu Lys Leu Leu Leu
1 5 10 15

Gln Ala Leu Ser Gln Cys Lys Leu Leu Ile Lys Gly Lys Leu Gln Cys
20 25 30

Pro Arg Ile
35

<210> 2686
<211> 39
<212> PRT
<213> Homo sapiens

<400> 2686
Met Ala Met Gly His Leu Val Phe Ile Ser Gly Ile Ile Gln Leu Val
1 5 10 15

Lys Gly Met Tyr Leu Ser Ala Trp Tyr Pro Leu Gln Lys Ser Trp Asn
20 25 30

Leu Thr Trp His Asn Lys Pro
35

<210> 2687
<211> 5
<212> PRT
<213> Homo sapiens

<400> 2687
Met Trp Thr Cys Lys
1 5

<210> 2688
<211> 39
<212> PRT
<213> Homo sapiens

<400> 2688
Met Phe Arg Arg Gly Phe Gly Ser Phe Cys Phe Cys Phe Leu Lys His
1 5 10 15

Val Phe His Ser His Leu Gly Ile Leu Glu Ala Gly Gln Leu Ala Gly
20 25 30

Phe Leu Gly Cys Arg Glu Thr
35

<210> 2689
<211> 31
<212> PRT
<213> Homo sapiens

<400> 2689
Met Pro Cys Pro Phe Ala His Leu Val Leu Leu Val Val Thr Ser Leu
1 5 10 15

Val Thr Gly Lys Val Ser Lys Asp Ile Gly Val Glu His Pro Gly
20 25 30

<210> 2690
<211> 35
<212> PRT
<213> Homo sapiens

<400> 2690
Met Val Lys Leu Leu Val Lys Leu Thr Phe Ile Ile Ser Pro Leu Ile
1 5 10 15

Lys Ser Ser Asp Ser Gly Ile Thr Ser Leu Ser Cys Ser Tyr Gln Arg
20 25 30

Ala Ile Phe
35

<210> 2691
<211> 17
<212> PRT
<213> Homo sapiens

<400> 2691
Met Gln Lys Leu Lys Gly Gly Ile Ser Val Phe Leu Ala Phe Leu Leu
1 5 10 15

Met

<210> 2692
<211> 37
<212> PRT
<213> Homo sapiens

<400> 2692
Met Ile Leu Lys Gln Gly Leu Ile Cys Thr Trp Gln Val Leu Leu Leu
1 5 10 15

Ala Ser Ala Leu Glu Met Leu Val Phe Ile Cys Ala Met Glu Cys Leu
20 25 30

Thr Gln Phe Gln Val
35

<210> 2693
<211> 53
<212> PRT
<213> Homo sapiens

<400> 2693
Met Tyr Phe Phe Lys Ile Ser Ile Leu Leu Ser Leu Tyr Asn Ile Ser
1 5 10 15

Ile Leu Leu Cys Met Tyr Lys Leu Phe Asn Met Lys Phe Ala Glu Tyr

```
            20                  25                  30

Ser Thr Ser Ser Lys Leu Tyr Asp Met Gly Gly Thr Glu Val Trp Gly
        35                  40                  45

Tyr Leu Val Pro Val
    50
```

<210> 2694
<211> 31
<212> PRT
<213> Homo sapiens

<400> 2694

```
Met Thr Glu Ser Leu Leu Tyr Leu Gln Leu Ile Leu Leu Trp Gly Ile
  1               5                  10                  15

Ser Glu Ile Pro Ser Ser Asn Thr Glu Met Tyr Arg Lys Cys Pro
            20                  25                  30
```

<210> 2695
<211> 16
<212> PRT
<213> Homo sapiens

<400> 2695

```
Met Gln Lys Gly Arg Ala Val Cys Leu Ser Pro Asp Leu Ala His Gly
  1               5                  10                  15
```

<210> 2696
<211> 16
<212> PRT
<213> Homo sapiens

<400> 2696

```
Met Gln Lys Gly Arg Ala Val Cys Leu Ser Pro Asp Leu Ala His Gly
  1               5                  10                  15
```

<210> 2697
<211> 61
<212> PRT
<213> Homo sapiens

<400> 2697

```
Met Arg Val Leu Ile Leu Asn Val Ser Met Phe Leu Arg Ser Leu Ala
  1               5                  10                  15
```

Tyr Ile Leu Trp Cys Ser His Trp Lys Trp Lys Asn Gly Ile Ile Tyr
20 25 30

Ile Ile Tyr Ile Asn Ile Tyr Tyr Thr Tyr Ser Pro Tyr Phe Ile Ser
35 40 45

Val Thr Ile Pro Ile Glu Phe Asp Lys Asn Cys Tyr Asp
50 55 60

<210> 2698
<211> 5
<212> PRT
<213> Homo sapiens

<400> 2698
Met His Ile Ile Gln
1 5

<210> 2699
<211> 92
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2699
Met His Phe Leu Phe Gly Tyr Tyr Val Phe Ser Leu Thr Ser Ala Ser
1 5 10 15

Pro Ala Leu Trp Ala Ala Ala Ser Thr Cys Ser Ser Asp Leu Asp Xaa
20 25 30

Pro Cys Trp Val Leu Val His Leu Leu Ile Trp Cys Phe Val Cys His
35 40 45

Gln Tyr Leu His Cys Ser Trp Trp Asp Val Ser His His Leu Leu Tyr
50 55 60

Leu Leu Pro Thr Arg Lys Ile Lys Arg Ser Tyr Phe Phe Pro Leu Arg
65 70 75 80

Ser Asn Phe Ser Leu Asp Ser Trp Tyr Pro Gln Phe
85 90

<210> 2700
<211> 11
<212> PRT
<213> Homo sapiens

<400> 2700
Met Phe Val Cys Leu Phe Leu Ile Asn Asn Ile
1 5 10

<210> 2701
<211> 120
<212> PRT
<213> Homo sapiens

<400> 2701
Val Val Phe Gly Ala Ser Leu Phe Leu Leu Leu Ser Leu Thr Val Phe
1 5 10 15

Ser Ile Val Ser Val Thr Ala Tyr Ile Ala Leu Ala Leu Leu Ser Val
20 25 30

Thr Ile Ser Phe Arg Ile Tyr Lys Gly Val Ile Gln Ala Ile Gln Lys
35 40 45

Ser Asp Glu Gly His Pro Phe Arg Ala Tyr Leu Glu Ser Glu Val Ala
50 55 60

Ile Ser Glu Glu Leu Val Gln Lys Tyr Ser Asn Ser Ala Leu Gly His
65 70 75 80

Val Asn Cys Thr Ile Lys Glu Leu Arg Arg Leu Phe Leu Val Asp Asp
85 90 95

Leu Val Asp Ser Leu Lys Leu Ser Phe His Ser Ser Val Phe Leu Leu
100 105 110

Phe Met Asn Gly Ile Arg His Arg
115 120

<210> 2702
<211> 44
<212> PRT
<213> Homo sapiens

<400> 2702
Met Asp Thr Trp Ile Phe Leu Leu Val Thr Lys Ile Phe Lys Leu Phe
1 5 10 15

Val Tyr Thr His Thr His Thr His Thr His Thr His Val Ser Val Pro
20 25 30

Arg Asn Val Tyr Arg Gly Gly Gln Phe Ser Glu Asp
35 40

<210> 2703
<211> 34
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2703
Met Ile Ile Trp Phe Leu Pro Phe Thr Leu Leu Val Trp Phe Ile Thr
1 5 10 15

Phe Ile Asp Leu Phe Met Leu Asn His Pro Cys Xaa Pro Gly Ile Asn
20 25 30

Leu Thr

<210> 2704
<211> 5
<212> PRT
<213> Homo sapiens

<400> 2704
His Ala Cys Phe Leu
1 5

<210> 2705
<211> 32
<212> PRT
<213> Homo sapiens

<400> 2705
Met Phe Cys Gly Ala Cys Gln Ile Gly Trp Asn Leu Trp Gly Leu Leu
1 5 10 15

Trp Glu Met Pro Arg Glu His Arg Phe Arg Arg Trp Glu Gln Leu Val
20 25 30

<210> 2706
<211> 23
<212> PRT
<213> Homo sapiens

<400> 2706
Met Ser Val Gln Arg Trp Ala Leu Lys Leu Thr Leu Ile Leu Leu Val
1 5 10 15

Glu Lys Ser Leu Lys Ala Ile
20

<210> 2707
<211> 39
<212> PRT
<213> Homo sapiens

<220>

<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2707
Met Leu Asn Asn Phe Leu Gly Ile Asn Leu Gln Ala Trp Thr Ser Arg
1 5 10 15

Leu Ser Xaa Gln Phe Leu Leu Thr Phe Ala Thr Tyr Cys Tyr Ala Asn
20 25 30

Phe Gln Lys Asn Cys Thr Gln
35

<210> 2708
<211> 1
<212> PRT
<213> Homo sapiens

<400> 2708
Met
1

<210> 2709
<211> 49
<212> PRT
<213> Homo sapiens

<400> 2709
Met Ala Pro Lys Phe Phe Val Ser Thr Gly Ile Ser Pro Met Ala Pro
1 5 10 15

Ile Ala Thr Ala Lys Pro Thr Ala Pro Pro Val Leu Pro Ala Ser Leu
20 25 30

Pro Asp Arg Arg Cys Leu Gln Ser His Thr Gln Ser Ser Gly His Leu
35 40 45

Pro

<210> 2710
<211> 72
<212> PRT
<213> Homo sapiens

<400> 2710
Met Trp Met Ser Leu Val Leu His His Ser Leu Pro Leu Gly Val Thr
1 5 10 15

Val Ala Leu His Cys Ala Cys Phe Val Ala Lys Asn Ser Gly Ile Pro
20 25 30

Ser Gly Glu Arg Ser Cys Phe Gln Gly Asn Arg Gln Ala Gly Ser Glu
35 40 45

Val Gln Glu Lys Ala Thr Glu Ala Trp Lys Gly Ser Ser Cys Ile Cys
50 55 60

Ala Ser Cys Ala Arg Arg Thr Leu
65 70

<210> 2711
<211> 35
<212> PRT
<213> Homo sapiens

<400> 2711
Met Lys Thr Gln Asn His Cys Ile Phe Cys Ile Val Ile Leu Phe Ser
1 5 10 15

Thr Ser Val Pro Pro Leu Ile Trp Ser Trp Gln Cys Val Ser Val His
20 25 30

Ser Leu Phe
35

<210> 2712
<211> 34
<212> PRT
<213> Homo sapiens

<400> 2712
Met Leu Lys Val Cys Val Cys Val Cys Val Cys Val Cys Val Cys Val
1 5 10 15

Ser Tyr Pro Leu Lys Lys Gly Leu Tyr Asn Lys Ser Ala Ser His Trp
20 25 30

Leu Leu

<210> 2713
<211> 5
<212> PRT
<213> Homo sapiens

<400> 2713
Met Asn Gly Leu Leu
1 5

<210> 2714
<211> 39
<212> PRT
<213> Homo sapiens

<400> 2714
Met Arg Ser Ser Gly Ala Trp Gln Ala Met Val Gly Val Trp Ile Leu

```
  1               5                  10                  15

Phe Leu Ser Ala Val Glu Ser Gln Gly Arg Val Leu Ala Glu Gln Arg
             20                  25                  30

Cys Asn Leu Ala Trp Ala Leu
         35
```

<210> 2715
<211> 26
<212> PRT
<213> Homo sapiens

<400> 2715

```
Met Tyr Cys Ile Ser Trp Glu Val Tyr Phe Met Ser Phe Leu Ala Phe
  1               5                  10                  15

Phe Phe Pro Thr Ala Thr Ala Asn Glu Gly
             20                  25
```

<210> 2716
<211> 25
<212> PRT
<213> Homo sapiens

<400> 2716

```
Met Ser Leu Phe Phe Ile Trp Gln Leu Thr Lys Leu Leu Lys Ala Gln
  1               5                  10                  15

Pro Asn Cys Thr Phe Ala Arg Thr Phe
             20                  25
```

<210> 2717
<211> 92
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (77)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2717

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Met Ala Val Leu Ala Gly Ser Leu Leu Gly Pro Thr Ser Arg Ser Ala
  1               5                  10                  15

Ala Leu Leu Gly Gly Arg Trp Leu Gln Pro Arg Ala Trp Leu Gly Phe
             20                  25                  30

Pro Asp Ala Trp Gly Leu Pro Thr Pro Gln Gln Ala Arg Gly Lys Ala
         35                  40                  45

Arg Gly Asn Glu Tyr Gln Pro Ser Asn Ile Lys Arg Lys Asn Lys His
     50                  55                  60
```

Gly Trp Val Arg Arg Leu Ser Thr Pro Ala Gly Val Xaa Val Ile Leu
65 70 75 80

Arg Arg Met Leu Lys Gly Arg Lys Ser Leu Ser His
85 90

<210> 2718
<211> 35
<212> PRT
<213> Homo sapiens

<400> 2718
Met Ile Lys Leu Val His Gln Ile Val Ile Leu Cys Val Met Arg Ile
1 5 10 15

Val Ala Gly Val Ile Leu Lys Cys Trp Tyr Leu Asp Arg Thr Ala Ser
20 25 30

Pro Gly Phe
35

<210> 2719
<211> 72
<212> PRT
<213> Homo sapiens

<400> 2719
Met Leu Asp Val Phe Leu Lys Ser Cys Phe Val Ser Phe Leu Ser Leu
1 5 10 15

Ile Val Lys Leu Leu Asn Ile Asn Arg Phe Ala Gln Pro Gln Arg Met
20 25 30

Arg Val Asp Asn Thr Glu Glu Val Met Gln Lys Gln Lys Ile Thr Leu
35 40 45

Leu Ile Ile Asp Ser Ile Thr Asn Lys Cys Leu Phe Leu Ser Leu Pro
50 55 60

Pro Phe Leu Pro Leu Pro Ser Ser
65 70

<210> 2720
<211> 37
<212> PRT
<213> Homo sapiens

<400> 2720
Met Leu Leu Cys Thr His Thr Ser Leu Leu Leu Tyr Phe Ser Phe Trp
1 5 10 15

Met Gly Leu Ala Lys Thr Gly Ser Gly Gln Arg Pro Pro Lys Leu Tyr
20 25 30

Val Leu Pro Val Ser

35

<210> 2721
<211> 17
<212> PRT
<213> Homo sapiens

<400> 2721
Met Pro Leu Gly Leu Pro Leu Ser Ala Ser Gly Phe Ser Val Gly Asp
1 5 10 15

Leu

<210> 2722
<211> 66
<212> PRT
<213> Homo sapiens

<400> 2722
Met Gln Lys Cys Arg Val Leu Ala Phe Leu Phe Cys Ala Leu Tyr Lys
1 5 10 15

Ala Gly Cys Asp Ser Asp Gln Leu Asn Phe Leu Tyr Tyr Val Ile Ser
20 25 30

Leu Thr Ala Thr Val Lys Met Ile Lys Ser Leu Tyr Asn Arg Lys Leu
35 40 45

Phe Lys Phe Tyr Phe Ser Thr Asp Ile Ser Asn Ser Ser Val Asn Val
50 55 60

Tyr Gln
65

<210> 2723
<211> 39
<212> PRT
<213> Homo sapiens

<400> 2723
Met Arg Phe Cys Cys Leu Ile Leu Gln Ile Leu Thr Arg Leu Val Leu
1 5 10 15

Thr Lys Tyr Gly Arg Ser Gly Ile Arg Trp Lys Lys Glu Gly Ser Ser
20 25 30

Cys Cys Cys Ser Tyr Ser Cys
35

<210> 2724
<211> 34
<212> PRT

<213> Homo sapiens

<400> 2724
Met Trp Arg Trp Lys Ala Val Thr Leu Met Ile Leu Thr Leu Ser Arg
1 5 10 15

Ser Arg Leu Met Cys Ala Phe Val Ser Trp Phe Leu Thr Lys Lys Phe
20 25 30

Lys Arg

<210> 2725
<211> 52
<212> PRT
<213> Homo sapiens

<400> 2725
Met Thr Ala Ser Pro Asp Tyr Leu Val Val Leu Phe Gly Ile Thr Ala
1 5 10 15

Gly Ala Thr Gly Ala Lys Leu Gly Ser Asp Glu Lys Glu Leu Ile Leu
20 25 30

Leu Phe Trp Lys Val Val Asp Leu Ala Asn Lys Lys Val Gly Gln Leu
35 40 45

His Glu Ser Ser
50

<210> 2726
<211> 45
<212> PRT
<213> Homo sapiens

<400> 2726
Met Arg Ala Ala Val Gln Thr Cys Leu Pro Ser Gln Ala Leu Ala Ser
1 5 10 15

Leu Thr Trp Gln Arg Leu Cys Pro Gly Leu Ser Pro Pro Arg Ala Met
20 25 30

Ser Leu Met Ala Val Leu Thr Glu Arg Ser Gln Ile Val
35 40 45

<210> 2727
<211> 35
<212> PRT
<213> Homo sapiens

<400> 2727
Met Leu Phe Met Ala His Leu Leu Leu Arg Thr His Pro Leu Ser Leu
1 5 10 15

Trp Val Thr Ser Arg Gln Ala Lys Asp Trp Cys Phe Ser Phe His Pro

20 25 30

Leu Glu Gly
35

<210> 2728
<211> 35
<212> PRT
<213> Homo sapiens

<400> 2728
Met Leu Phe Met Ala His Leu Leu Leu Arg Thr His Pro Leu Ser Leu
1 5 10 15

Trp Val Thr Ser Arg Gln Ala Lys Asp Trp Cys Phe Ser Phe His Pro
20 25 30

Leu Glu Gly
35

<210> 2729
<211> 70
<212> PRT
<213> Homo sapiens

<400> 2729
Met Ser Pro Ser Gln Ser Gly Val Gly Ile Ser Gly Leu Gly Leu Phe
1 5 10 15

Leu Ser Lys Thr Pro Leu Phe Ser Leu Ile Leu Lys Val Ile Phe Leu
20 25 30

Arg Thr Glu Leu Leu Pro Lys Glu Arg Asp Gly Phe Pro Arg Arg His
35 40 45

Ser Trp Pro Ser Val Asp Leu Ser Val His Leu Leu Ala Leu Leu Ala
50 55 60

Asp Ser Ser Gly Trp Ala
65 70

<210> 2730
<211> 102
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (72)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2730
Met Thr Gly Val Gln Val Gln Trp Thr Val Ile Phe Leu Ala Pro Val
1 5 10 15

Ile Ala Val Ile Leu Cys Ala Met Gln Thr Met Leu Arg Ser Leu Trp
20 25 30

Leu Met Asp Leu Thr Leu Thr Val Ser Gln Val Val Glu Glu Arg Lys
35 40 45

Gln Met Lys Gly Lys Lys Lys His Gly Ile Gln Gln Lys Lys Thr Leu
50 55 60

Glu Leu Ile Val Asn Met Met Xaa Val Ala Arg Val Gly Glu Lys Cys
65 70 75 80

Ser Thr Cys Ile Ser Lys Leu Asn Leu Met Leu Gln Met Lys Val Leu
85 90 95

Gly Lys Asp Ile Asn Gly
100

<210> 2731
<211> 36
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2731
Met Ser His Cys Trp Thr Leu Leu Ala Leu Ser Leu Trp Gly Leu Xaa
1 5 10 15

Val Ser Gln Gly Arg Glu Thr Trp Trp Arg Trp Pro His Gly Leu Gly
20 25 30

Pro Pro Cys Ser
35

<210> 2732
<211> 44
<212> PRT
<213> Homo sapiens

<400> 2732
Leu Ile Gly Val Phe Pro Pro His Leu Leu Ser Ser Leu Lys Cys Val
1 5 10 15

Pro Asp Ala Phe Ile Cys Cys Phe Thr Ser Met Phe Cys Phe Ser Ser
20 25 30

Ser Leu Cys Ser Leu Pro Val Tyr Pro Leu Ser Leu
35 40

<210> 2733
<211> 10

<212> PRT
<213> Homo sapiens

<400> 2733
Met Ile Val Thr Lys Met Tyr Phe His Val
1 5 10

<210> 2734
<211> 16
<212> PRT
<213> Homo sapiens

<400> 2734
Glu Lys Ile Asp Gln Gln Phe Thr Phe Ala Val Cys Leu Val Phe Val
1 5 10 15

<210> 2735
<211> 12
<212> PRT
<213> Homo sapiens

<400> 2735
Asn Trp Leu Asp Leu Phe Val Leu Gly Phe Ser Ser
1 5 10

<210> 2736
<211> 53
<212> PRT
<213> Homo sapiens

<400> 2736
Met Gly Gln Arg Gly Val Phe Leu Leu Ile Leu Asp Ala Phe Ser Val
1 5 10 15

Pro Ser Thr Ala Ser Cys Leu Ile Thr Pro Leu Pro Pro Pro His Pro
20 25 30

Gln Pro Ser Gln Phe Phe Leu Ala Ser Ala Leu Gln Pro Tyr Leu Gly
35 40 45

Lys Glu Glu Trp Val
50

<210> 2737
<211> 53
<212> PRT
<213> Homo sapiens

<400> 2737
Met Gly Gln Arg Gly Val Phe Leu Leu Ile Leu Asp Ala Phe Ser Val

1 5 10 15

Pro Ser Thr Ala Ser Cys Leu Ile Thr Pro Leu Pro Pro Pro His Pro
20 25 30

Gln Pro Ser Gln Phe Phe Leu Ala Ser Ala Leu Gln Pro Tyr Leu Gly
35 40 45

Lys Glu Glu Trp Val
50

<210> 2738
<211> 37
<212> PRT
<213> Homo sapiens

<400> 2738
Met Leu Gln Met Cys Ile Tyr Ala Gln Trp Tyr Ala Tyr Leu Cys Val
1 5 10 15

Thr Val Ser Val Ala Ser Trp Leu Asp Pro Thr Ile Ser Ser Glu Ile
20 25 30

Met His Pro Lys Gly
35

<210> 2739
<211> 17
<212> PRT
<213> Homo sapiens

<400> 2739
Met Leu Phe Phe Cys Gln Ala Leu Phe Val Leu Ala Val Tyr Tyr Ile
1 5 10 15

Phe

<210> 2740
<211> 38
<212> PRT
<213> Homo sapiens

<400> 2740
Met Arg Thr Ala Leu Phe Pro Thr Glu Cys Cys Leu Pro Met Cys Val
1 5 10 15

Val Leu Ala Val Phe Tyr Leu Pro Ile Val Phe Ser Arg Ile Ile Glu
20 25 30

Ser Ala Asp Ser Phe Asp
35

<210> 2741
<211> 56
<212> PRT
<213> Homo sapiens

<400> 2741
Met Phe Leu Ala Ser Phe Ser Ser Pro Gly Phe Gln Leu Ser Phe Ser
1 5 10 15

Ser Ser Ser Asn Met Ala Ser Ala His Lys Ser Leu Leu Cys Gln Asp
20 25 30

Leu Met Val Leu His Leu Pro Glu Pro Ser Ser Ala Ser Val Pro Arg
35 40 45

Pro Gln Leu Val Arg Leu Thr His
50 55

<210> 2742
<211> 56
<212> PRT
<213> Homo sapiens

<400> 2742
Gly Trp Phe His Leu Phe Trp Gln Glu Trp Glu Gln Glu Pro Gly Gln
1 5 10 15

Asn Lys Leu Leu Glu Ala Leu Val Leu Gly Thr Ala Ala Gly Arg Val
20 25 30

Gly Thr Arg Gln Asn Cys Leu Gln Asp Glu Ser Gln Glu Arg Thr Leu
35 40 45

Ser Pro Val Ser Gly Val Trp Leu
50 55

<210> 2743
<211> 33
<212> PRT
<213> Homo sapiens

<400> 2743
Met Val Pro Arg Ser Val Ala Phe Val Lys Thr Leu Ala Leu Leu Glu
1 5 10 15

Leu Gly Phe Ala Leu Ala Val Met Gln Gly Cys Ala Glu Pro Ile Ser
20 25 30

Met

<210> 2744
<211> 51
<212> PRT
<213> Homo sapiens

<400> 2744
Ala Val Val Pro Thr Trp Cys Ser Thr Val Leu Leu Thr Phe Val Pro
1 5 10 15

Thr Ala Arg Leu Val Ala Gly Leu Glu Asp Val Gln Val Tyr Asp Gly
20 25 30

Glu Asp Ala Val Phe Ser Leu Asp Leu Ser Thr Ile Ile Gln Gly Thr
35 40 45

Trp Phe Pro
50

<210> 2745
<211> 10
<212> PRT
<213> Homo sapiens

<400> 2745
Met His Leu Ile Thr Val Leu Leu Asn Val
1 5 10

<210> 2746
<211> 25
<212> PRT
<213> Homo sapiens

<400> 2746
Met Phe Cys Leu Ser Phe Pro Ile Ser Gly Ala Tyr Leu Leu Ile Pro
1 5 10 15

Ala Tyr Phe Leu Glu Val Val Gly Lys
20 25

<210> 2747
<211> 97
<212> PRT
<213> Homo sapiens

<400> 2747
Met Glu Val Val Val Thr Val Thr Pro Lys Thr Cys Pro Leu Ser Ser
1 5 10 15

Leu Leu Leu Phe Leu Leu Tyr Phe Leu Val Ile Gly Ser Val Ile His
20 25 30

Leu Thr Ala Gly Phe Arg Ile Leu Val Leu Gly Leu Val Phe Leu Phe
35 40 45

Phe Pro Tyr Pro Pro Tyr Pro Asn Cys His Gln Val Leu Leu His Ala
50 55 60

Leu Met Ile Ser His Leu Ser Tyr Pro Ser Ser Phe Gln Ile Gly Pro
65 70 75 80

Ser Asp Phe Asn Leu Gly His Ser His Tyr Leu Leu Tyr Tyr Gly Lys
85 90 95

Ile

<210> 2748
<211> 334
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (290)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (316)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (321)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2748
Met Leu Phe Gly Ser Ile Phe Arg Cys Leu Asp Pro Ala Leu Thr Ile
1 5 10 15

Ala Ala Ser Leu Ala Phe Lys Ser Pro Phe Val Ser Pro Trp Asp Lys
20 25 30

Lys Glu Glu Ala Asn Gln Lys Lys Leu Glu Phe Ala Phe Ala Asn Ser
35 40 45

Asp Tyr Leu Ala Leu Leu Gln Ala Tyr Lys Gly Trp Gln Leu Ser Thr
50 55 60

Lys Glu Gly Val Arg Ala Ser Tyr Asn Tyr Cys Arg Gln Asn Phe Leu
65 70 75 80

Ser Gly Arg Val Leu Gln Glu Met Ala Ser Leu Lys Arg Gln Phe Thr
85 90 95

Glu Leu Leu Ser Asp Ile Gly Phe Ala Arg Glu Gly Leu Arg Ala Arg
100 105 110

Glu Ile Glu Lys Arg Ala Gln Gly Gly Asp Gly Val Leu Asp Ala Thr
115 120 125

Gly Glu Glu Ala Asn Ser Asn Ala Glu Asn Pro Lys Leu Ile Ser Ala
130 135 140

Met Leu Cys Ala Ala Leu Tyr Pro Asn Val Val Gln Val Lys Ser Pro
145 150 155 160

Glu Gly Lys Phe Gln Lys Thr Ser Thr Gly Ala Val Arg Met Gln Pro

Page 1539 of 1539

```
                165                 170                 175

Lys Ser Ala Glu Leu Lys Phe Val Thr Lys Asn Asp Gly Tyr Val His
            180                 185                 190

Ile His Pro Ser Ser Val Asn Tyr Gln Val Arg His Phe Asp Ser Pro
        195                 200                 205

Tyr Leu Leu Tyr His Glu Lys Ile Lys Thr Ser Arg Val Phe Ile Arg
    210                 215                 220

Asp Cys Ser Met Val Ser Val Tyr Pro Leu Val Leu Phe Gly Gly Gly
225                 230                 235                 240

Gln Val Asn Val Gln Leu Gln Arg Gly Glu Phe Val Val Ser Leu Asp
                245                 250                 255

Asp Gly Trp Ile Arg Phe Val Ala Ala Ser His Gln Val Ala Glu Leu
            260                 265                 270

Val Lys Glu Leu Arg Cys Glu Leu Asp Gln Leu Leu Gln Asp Lys Ile
        275                 280                 285

Lys Xaa Pro Ser Ile Asp Leu Cys Thr Cys Pro Arg Gly Ser Arg Ile
    290                 295                 300

Ile Ser Thr Ile Val Lys Leu Val Thr Thr Gln Xaa Lys Ala Val Leu
305                 310                 315                 320

Xaa Ser Ala Cys Tyr Ser Pro Ala Ser Ser Ser Pro Gly Lys
                325                 330
```

<210> 2749
<211> 33
<212> PRT
<213> Homo sapiens

<400> 2749

```
Met Gly Leu Leu Trp Asn Leu Ile Ala Thr Tyr Phe Cys Phe Pro Leu
  1               5                  10                  15

Asp Ala Ala Ser Thr His Val Asp Tyr Glu Val Leu Thr His Pro Arg
             20                  25                  30

Ser
```

<210> 2750
<211> 50
<212> PRT
<213> Homo sapiens

<400> 2750

```
Met Leu Pro Pro Pro Ser Leu Leu Phe Ile Phe Ser Ala Phe Cys Leu
  1               5                  10                  15

Ala Ser Leu Pro Pro Cys Phe Ser Gly Trp Glu Leu Leu Val Thr Pro
```

EP 1 284 246 A2

```
             20                  25                  30

Leu Ser Asp Cys Leu Val Ala Gly Thr Leu Pro Val Arg Ala Thr Phe
         35                  40                  45

Leu Phe
     50
```

<210> 2751
<211> 38
<212> PRT
<213> Homo sapiens

<400> 2751

```
Met Tyr Leu Lys Tyr Cys Tyr Val Ile Leu Gly Tyr Leu Phe Ile Phe
  1               5                  10                  15

Glu Ile Phe Val Tyr Ile Ala Phe Leu Asn Leu Ala Asn Asn Met Cys
             20                  25                  30

Lys Gly Ile Asn Gln Lys
         35
```

<210> 2752
<211> 5
<212> PRT
<213> Homo sapiens

<400> 2752

```
Ile Val Gly Phe Asn
  1               5
```

<210> 2753
<211> 30
<212> PRT
<213> Homo sapiens

<400> 2753

```
Met Leu Gln Phe Ser Cys Leu Ser Ile Ser His Val Leu Ile Leu Leu
  1               5                  10                  15

Ile Thr Phe Phe Ala Cys Val Val Leu Ala Pro Phe Gln Lys
             20                  25                  30
```

<210> 2754
<211> 29
<212> PRT
<213> Homo sapiens

<400> 2754

```
Met Phe Phe Ser Cys Leu Phe Leu Phe Gly Leu Tyr Ser Gly Cys Leu
  1               5                  10                  15
```

Phe Leu Phe Val Lys Arg Lys Gln Cys Thr Glu Lys Gln
20 25

<210> 2755
<211> 45
<212> PRT
<213> Homo sapiens

<400> 2755
Met Glu Leu Asn Ile Ala Trp Met Thr Glu Lys Leu Trp Lys Glu Met
1 5 10 15

Glu Asp Phe Leu Asn Phe Ser Leu Val Leu Phe Val Met Lys Leu Lys
20 25 30

Leu Pro Ala Pro Glu Lys Val Phe Gln Tyr Leu Leu Cys
35 40 45

<210> 2756
<211> 38
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2756
Met Gln Thr Cys Leu Leu Trp Asn Leu Lys Thr Leu Leu Val Val Arg
1 5 10 15

Leu Leu Pro Gly Ile Pro Gly Leu Xaa Gly Phe Tyr Phe Asp Ser Lys
20 25 30

Gln Lys Gln Met Leu Cys
35

<210> 2757
<211> 38
<212> PRT
<213> Homo sapiens

<400> 2757
Met Val Cys Ser Ile Leu Ser Phe Ser Ile Leu Pro Phe Trp Glu Asp
1 5 10 15

Phe Gly Ile Ser Phe Leu Phe Phe Leu Phe Phe Leu Arg Glu Trp Gln
20 25 30

Ile Val Phe Ser Gln Val
35

<210> 2758
<211> 52
<212> PRT
<213> Homo sapiens

<400> 2758
Met Cys Val Val Asn Ile Leu Trp Phe Ser Ala Phe Thr Ser Met Arg
1 5 10 15

Val Ala Ser Asp Pro Ala Arg Leu Thr Gly Leu Pro Lys Pro Ser Leu
20 25 30

Ala Ser Ser Thr Tyr Ile Ser Leu Cys Cys Ser Thr Ser Lys Gln Thr
35 40 45

Lys Ile Gly Val
50

<210> 2759
<211> 31
<212> PRT
<213> Homo sapiens

<400> 2759
Met Phe Met Leu Ala Ile Leu Leu Thr Phe Phe His Pro Phe Leu Val
1 5 10 15

Tyr Arg Glu Cys Arg Thr Trp Lys Glu Ser Pro Ser Ala Ile Ala
20 25 30

<210> 2760
<211> 15
<212> PRT
<213> Homo sapiens

<400> 2760
Tyr Ile Phe Val Trp Ile Ser Ser Val Tyr Val Gln Tyr Phe Val
1 5 10 15

<210> 2761
<211> 40
<212> PRT
<213> Homo sapiens

<400> 2761
Met Met Phe Val Ile Leu Asn Ala Leu Val Leu Gly His Leu Leu Ile
1 5 10 15

Phe Leu Gln Val His Phe Leu Val His Glu Val Ser Phe Val Ile Asn
20 25 30

Val Cys His Met Phe Ile Pro Ile
35 40

<210> 2762
<211> 45
<212> PRT
<213> Homo sapiens

<400> 2762
Gly Met Ala Val Leu Val Glu Lys Ser Val Val Leu Val Ile Trp Leu
1 5 10 15

Gly Pro Val Ala Gln Ala Gly Ser Asn Trp Phe Ala Val Ser Ser Leu
20 25 30

Gln Glu Tyr Leu Lys Gln Gly Asp Ser Ser Ser Leu Leu
35 40 45

<210> 2763
<211> 46
<212> PRT
<213> Homo sapiens

<400> 2763
Met Phe Pro Cys Lys Leu Val Val Gln Tyr Gln Leu Leu Pro Ile Phe
1 5 10 15

Ile Leu Lys Arg Pro Leu Gln Ile Ser Val Arg Val Phe Pro Val Ile
20 25 30

Thr His Ser Thr Leu Leu Lys Phe Ala Ile Ser Ser Ala Ile
35 40 45

<210> 2764
<211> 31
<212> PRT
<213> Homo sapiens

<400> 2764
Met Thr Phe Val Ile Tyr Tyr Thr His Trp Phe Leu Leu Ile Ile Val
1 5 10 15

Leu Ser Asp Phe Leu Phe Ser Thr Met Val Pro Leu Ala Glu Lys
20 25 30

<210> 2765
<211> 2
<212> PRT
<213> Homo sapiens

<400> 2765
Lys Trp
1

<210> 2766

<211> 33
<212> PRT
<213> Homo sapiens

<400> 2766
Met Glu Lys Leu Asp Trp Ala Tyr Ser Gln His Ser Val Ile Cys Lys
1 5 10 15

Cys Ile Ser Leu Leu Cys Arg Val Phe Leu Leu Gly Val Asn Phe Asp
20 25 30

Ser

<210> 2767
<211> 32
<212> PRT
<213> Homo sapiens

<400> 2767
Met Leu Thr Gly Thr Leu Phe Pro Gly Phe His Val Arg Leu Trp Ala
1 5 10 15

Leu Ser Pro Ala Gln Ala Gln Glu Cys Leu Val Gly Gly Glu Trp Ser
20 25 30

<210> 2768
<211> 20
<212> PRT
<213> Homo sapiens

<400> 2768
Met Cys Gly Cys Thr Thr Phe Phe Cys Asp Tyr Met Gly Ser Phe Glu
1 5 10 15

Arg Ile Tyr Leu
20

<210> 2769
<211> 46
<212> PRT
<213> Homo sapiens

<400> 2769
Met Ile Phe Leu Gly Leu His Thr Phe Ala Leu Phe Ser Glu Pro Cys
1 5 10 15

Pro Leu Asn Val Thr Leu Leu Pro Phe Ser Thr Val Cys Val Pro Thr
20 25 30

Val Gln Gly Leu Pro Gly Thr Ala His Arg Leu Met Ala Cys
35 40 45

<210> 2770
<211> 37
<212> PRT
<213> Homo sapiens

<400> 2770
Met Tyr Cys Lys Gln Ser Cys Val Leu Ile Leu Phe Ser Leu Phe Glu
1 5 10 15

Cys Ile Ile Ile Leu Ile Ile Pro Lys Thr Leu Thr Thr Gln Gly Thr
20 25 30

Ala Val Gln Tyr Tyr
35

<210> 2771
<211> 28
<212> PRT
<213> Homo sapiens

<400> 2771
Met His Leu Pro Gln Leu Pro Leu Gln Ser His His Tyr Cys Arg Leu
1 5 10 15

Ala Leu Arg Val Ser Phe Gln Val Phe Trp His Val
20 25

<210> 2772
<211> 32
<212> PRT
<213> Homo sapiens

<400> 2772
Lys Met Asn Leu Phe Val Leu Val Gly Ala Ile Ser Phe Ile Phe Arg
1 5 10 15

Thr Thr Glu Cys Ala Phe Ile Asn Arg Met Lys Ala His Ala Glu Asp
20 25 30

<210> 2773
<211> 41
<212> PRT
<213> Homo sapiens

<400> 2773
Met Gly His Leu Lys Ser Cys Met Asn His Asn Leu Leu Trp Tyr Leu
1 5 10 15

Cys Thr Cys Leu Ile Leu Tyr Ser Leu Phe Gln Cys Gly Ile Cys Ala

WO 2004/063355 PCT/US2003/040459

```
            20                  25                  30

Pro Leu Tyr Leu Leu Arg Ser Ala Glu
        35                  40
```

<210> 2774
<211> 82
<212> PRT
<213> Homo sapiens

<400> 2774

```
Leu Pro Val Glu Glu Pro Asn Pro Ala Lys Arg Leu Leu Phe Leu Leu
  1               5                  10                  15

Leu Thr Ile Val Phe Cys Gln Ile Leu Met Ala Glu Glu Gly Val Pro
            20                  25                  30

Ala Pro Leu Pro Pro Glu Asp Ala Pro Asn Ala Ala Ser Leu Ala Pro
        35                  40                  45

Thr Pro Val Ser Pro Val Leu Glu Pro Phe Asn Leu Thr Ser Glu Pro
     50                  55                  60

Ser Asp Tyr Ala Leu Asp Leu Ser Thr Phe Leu Gln Gln His Pro Ala
 65                  70                  75                  80

Ala Phe
```

<210> 2775
<211> 39
<212> PRT
<213> Homo sapiens

<400> 2775

```
Met Ala Leu Leu Leu His Leu Thr Gly Leu Lys Cys Trp Gly His Leu
  1               5                  10                  15

Trp Leu Leu Cys Ile Thr Val His Thr Gln Val Glu Pro Val Cys Ser
            20                  25                  30

Phe Pro Phe Asp Met Phe Phe
        35
```

<210> 2776
<211> 45
<212> PRT
<213> Homo sapiens

<400> 2776

```
Met Met Leu Leu Leu Leu Trp Pro Gly Leu Gln Trp Lys Cys Thr Gly
  1               5                  10                  15

Thr Pro Asn Val Val Asn Ala Leu Ser Ser Ile Cys Ser Gly Ile Leu
            20                  25                  30
```

Arg Val Gly Leu Trp Phe His Ala Leu Ala Val Cys Lys
35 40 45

<210> 2777
<211> 1
<212> PRT
<213> Homo sapiens

<400> 2777
Ser
1

<210> 2778
<211> 30
<212> PRT
<213> Homo sapiens

<400> 2778
Met Arg Lys Tyr Leu Met Gly Thr Val Tyr Thr Phe Leu Val Leu Val
1 5 10 15

Ala Gly Lys Ala Trp Thr Ser Pro Leu Arg Asn Ile Ser Val
20 25 30

<210> 2779
<211> 47
<212> PRT
<213> Homo sapiens

<400> 2779
Met His Glu Thr Cys Phe Tyr Phe Ala Ala Leu Val Leu Leu Val Leu
1 5 10 15

Leu Arg Lys Glu Lys Glu Gly Arg Glu Phe Met Val Arg Arg Phe Leu
20 25 30

Val Arg Arg Phe Ile Val Arg Arg Ser Arg Leu Gly His Lys Lys
35 40 45

<210> 2780
<211> 10
<212> PRT
<213> Homo sapiens

<400> 2780
His Ala Gly Arg Tyr Cys Val Ile Arg Ala
1 5 10

<210> 2781
<211> 41

<212> PRT
<213> Homo sapiens

<400> 2781
Leu Cys Thr Leu Ser Thr Ile Leu Cys Leu Phe Ser Ile Cys Leu Phe
1 5 10 15

Leu Pro Ile Ser Leu Pro Leu Arg Lys Lys Ile Gly Val Thr Phe Val
20 25 30

Lys Val Ile Leu Ile Val Asn His Leu
35 40

<210> 2782
<211> 11
<212> PRT
<213> Homo sapiens

<400> 2782
Leu Leu Phe Ala Ser Phe Leu Cys Lys Ile Leu
1 5 10

<210> 2783
<211> 63
<212> PRT
<213> Homo sapiens

<400> 2783
Met Phe Ile Ser Trp Phe Ile Leu Phe Arg Leu Tyr Pro Leu Ser Ser
1 5 10 15

Pro Phe Phe Ser Gln Asn Val Leu Lys Gln Ile Ser Asp Ile Leu Ser
20 25 30

Pro Tyr Tyr Phe Ile Gln Lys Tyr Phe Ser Ile Pro Glu Arg Tyr Ser
35 40 45

Ser Ser Lys Lys Lys Thr Thr Ile Pro Leu Ser His Leu Lys Ser
50 55 60

<210> 2784
<211> 59
<212> PRT
<213> Homo sapiens

<400> 2784
Met His Arg Trp Lys Ala Phe Phe Pro Gly Pro Tyr Pro Ser Leu His
1 5 10 15

Asn Thr Pro Val Thr Pro His His Gly Leu Leu Ser Asp Pro His Gly
20 25 30

Ile Pro Val Ala Leu Cys Ser His Thr Ala Phe Leu Ile Cys Pro Pro
35 40 45

Cys Leu Ser Leu Thr His Ile Leu Phe Gln Gly
50 55

<210> 2785
<211> 10
<212> PRT
<213> Homo sapiens

<400> 2785
Met Gly Cys Trp Leu Leu Pro Cys Phe Leu
1 5 10

<210> 2786
<211> 39
<212> PRT
<213> Homo sapiens

<400> 2786
Met Pro Ala His Leu Cys Leu Leu Pro Leu Leu Leu Cys Pro Ser Tyr
1 5 10 15

Ser Gln Asn Leu Tyr Leu Leu Ser Asn Leu His Phe Val Leu Val Pro
20 25 30

Leu Pro Phe Pro Ile Lys Glu
35

<210> 2787
<211> 34
<212> PRT
<213> Homo sapiens

<400> 2787
Met Met Pro Pro Thr Gly Ser Gly Leu Glu Asn Ile Glu Gly Gly Leu
1 5 10 15

Lys Val Leu Val Val Glu Ala Leu Val Gly Gln Gly Arg Pro Leu Arg
20 25 30

Ile Trp

<210> 2788
<211> 31
<212> PRT
<213> Homo sapiens

<400> 2788
Met Thr Pro Gly Ser Arg Val Met Gly Thr Cys Trp Gly Phe Cys Phe
1 5 10 15

Phe Phe Phe Thr Gly Trp Leu Asp Pro Gln Trp Gln Lys Asp Pro
20 25 30

<210> 2789
<211> 46
<212> PRT
<213> Homo sapiens

<400> 2789
Met Lys Leu Leu Arg Ser Ala Ala Lys Leu Met Val Leu Ile Ser Thr
1 5 10 15

Gln Thr Ser Tyr Ala Phe Gly Glu Gln Cys Thr His Leu Thr Leu Phe
20 25 30

Leu Ile Asn Ser Asn Ser Gly Lys Ile Pro Leu Thr Tyr Phe
35 40 45

<210> 2790
<211> 36
<212> PRT
<213> Homo sapiens

<400> 2790
Met Thr Gly Thr Pro Ala Trp Ala His Leu Leu Leu Leu Leu Leu Leu
1 5 10 15

Gly Ser Ala Pro Gln Thr Arg Leu Trp Pro Pro Ser Gln Cys Pro Val
20 25 30

Thr Ser Pro Glu
35

<210> 2791
<211> 55
<212> PRT
<213> Homo sapiens

<400> 2791
Met Gly Gly Ile Leu Leu Ala Leu Ile Glu Gly Val Gly Ile Leu Leu
1 5 10 15

Thr Arg Tyr Thr Ala Gln Gln Phe Arg Asn Ala Pro Pro Phe Leu Glu
20 25 30

Asp Pro Ser Gln Leu Pro Pro Lys Asp Gly Thr Pro Ala Pro Gly Tyr
35 40 45

Pro Ser Tyr Gln Gln Tyr His
50 55

<210> 2792
<211> 7
<212> PRT
<213> Homo sapiens

US20040259095A1

<400> 2792
Met Pro Ile Trp Ala Phe Val
1 5

<210> 2793
<211> 37
<212> PRT
<213> Homo sapiens

<400> 2793
Met Arg Lys Glu Phe Phe Leu Ile Leu Pro Leu Asp Phe Leu Phe Phe
1 5 10 15

Leu Leu Gln Val Ser Glu Arg Pro Arg Ser Leu Pro Leu Ser Pro Glu
20 25 30

Leu Glu Ser Ser Pro
35

<210> 2794
<211> 113
<212> PRT
<213> Homo sapiens

<400> 2794
Ser Ala Cys Asp Thr Gly Leu Ala Val Leu Leu Thr Val Phe Cys Ala
1 5 10 15

Cys Val Leu Pro Pro Phe Pro Pro Ala Ala Ala Glu Thr Arg Pro Ser
20 25 30

Phe His Thr Gln Ile Ser Cys Pro Val Leu Thr Pro Pro Cys His His
35 40 45

Gln Pro Cys Leu Glu Pro Pro Ala Leu Trp Gln Gln Asn Gln Thr Phe
50 55 60

Leu Trp Ala Phe Lys Met Val Leu Cys Pro Pro Val Arg Ser Cys Val
65 70 75 80

Leu Ser Pro Lys Gly His Ala Lys Asp Trp Leu Trp Glu Ala Leu Ile
85 90 95

Thr Asn Pro Ser Thr Ser Ser Leu Pro Gln Ala Gly Ser Asn Lys Cys
100 105 110

Ile

<210> 2795
<211> 38
<212> PRT
<213> Homo sapiens

<400> 2795
Met Gln Leu Arg Gly Leu Ser Leu Asn Pro Arg Leu Leu Leu Thr Leu
1 5 10 15

Gly Ser Leu Cys Leu Gly Ser Ser Ala Pro Gly Phe Gly Arg Gln Gln
20 25 30

Phe Pro Lys Asn Lys Met
35

<210> 2796
<211> 162
<212> PRT
<213> Homo sapiens

<400> 2796
Met Leu Val Met Lys Trp Glu Glu Ser Ile Ile Trp His His Leu Val
1 5 10 15

Leu Cys Ala Asn Ser Gly Leu Ser Ile Leu Leu Ile Leu Pro Cys Lys
20 25 30

Val Asn Asn Tyr Tyr Pro His Phe Ala Val Glu Lys Thr Glu Tyr Ser
35 40 45

Asp Thr Thr Leu Thr Phe Leu Gly Ser Lys Lys Leu Ser Val Ser Leu
50 55 60

Gly Phe Glu Leu Gln Val Asn Leu Ile Leu Lys His Val Leu Leu Ser
65 70 75 80

Ile Arg Thr Val Val Leu Leu Thr Gly His Gly Ala His Ala Cys Asn
85 90 95

Ser Ser Thr Leu Gly Ser Gln Gly Trp Gln Ile Thr Trp Thr Gln Glu
100 105 110

Phe Glu Thr Ser Pro Gly Ser Met Ala Lys Pro His Leu Asn Arg Lys
115 120 125

Tyr Leu Lys Val Arg Gln Val Trp Trp His Ala Pro Val Val Pro Ala
130 135 140

Thr Arg Glu Ala Glu Val Lys Gly Leu Leu Glu Pro Ala Arg Trp Arg
145 150 155 160

Leu His

<210> 2797
<211> 18
<212> PRT
<213> Homo sapiens

<400> 2797
Met Thr Cys Leu Leu Ser Gly Cys Leu Phe Cys Ser Arg Glu Gly Ser
1 5 10 15

Ala Val

<210> 2798
<211> 30
<212> PRT
<213> Homo sapiens

<400> 2798
Met Ile Phe Leu Leu Ile Val Asn Tyr Leu Ser Phe Ile Asp Tyr Gly
1 5 10 15

Arg Asp Leu Gln Asn Gly Ile His Val Gln Trp Cys Gly Glu
20 25 30

<210> 2799
<211> 71
<212> PRT
<213> Homo sapiens

<400> 2799
Glu Ser Ala Pro Pro Trp Leu Pro Ile Cys Pro Thr Arg Ser Leu Gly
1 5 10 15

Leu Leu Val Gln Leu Leu Ala Leu Ala Gly Ser Cys Ser Ala Gly Pro
20 25 30

Arg Ala Leu Gly Gln Ala Ser Gly Val Val Arg Thr Thr Lys Pro Leu
35 40 45

Leu Ser Pro Ser Thr Pro Leu Asp Leu Gly Pro Pro Glu Pro Pro Ala
50 55 60

Gly Trp Ala Tyr Thr Ser Ser
65 70

<210> 2800
<211> 183
<212> PRT
<213> Homo sapiens

<400> 2800
Met Thr Lys Ser Ser Ala Val Leu Phe Ile Leu Ile Phe Ser Leu Ile
1 5 10 15

Phe Lys Leu Glu Glu Leu Arg Ala Ala Leu Val Leu Val Val Leu Leu
20 25 30

Ile Ala Gly Gly Leu Phe Met Phe Thr Tyr Lys Ser Thr Gln Phe Asn
35 40 45

Val Glu Gly Phe Ala Trp Cys Trp Gly Pro Arg Ser Ser Val Ala Phe
50 55 60

Ala Gly Pro Ser Pro Arg Cys Ser Cys Arg Arg Leu Asn Ser Ala Ser
65 70 75 80

Arg Ile Pro Ser Thr Pro Cys Ser Thr Cys Ser His Ser Cys Ser Trp
85 90 95

Gly Ser Ser Leu Ser Leu Leu Tyr Leu Lys Val Ser Ile Cys Pro His
100 105 110

Leu Arg Lys Ser Ser Val Ser Arg Thr Gln Gly Cys Ser Cys Gly Tyr
115 120 125

Leu Gly Ala Ser Ser Leu Ala Gly Phe Ser Pro Leu Val Trp Ala Ser
130 135 140

Leu Ser Ser Ser Trp Ser Pro Glu Pro Pro Ala Ser Leu Ser Pro Leu
145 150 155 160

Pro Ala Phe Leu Arg Lys Ser Ala Leu Cys Cys Trp Gln Leu Ile Cys
165 170 175

Trp Ala Ile Arg Ser Ala Ser
180

<210> 2801
<211> 24
<212> PRT
<213> Homo sapiens

<400> 2801
Cys Ile Glu Cys Ile Val Leu Ala Gln Phe Ser Gly Ser Arg Lys Lys
1 5 10 15

Ile Gln Ala Arg Thr Ala Gly Leu
20

<210> 2802
<211> 38
<212> PRT
<213> Homo sapiens

<400> 2802
Met Ser Phe Pro Tyr Trp Leu Phe Tyr Leu Leu Leu Phe Ser Leu Pro
1 5 10 15

Ile Arg Asp Ile Leu Gly Gly Asp Gly Lys Gly Trp Ala Lys Glu Gln
20 25 30

Thr Leu Gly Leu Gly Pro
35

<210> 2803
<211> 35
<212> PRT
<213> Homo sapiens

<400> 2803
Ser Ile Tyr Leu Phe Leu Leu Arg Ala Gln Arg Leu Phe Pro Asn Ile
1 5 10 15

Leu Cys Leu Leu Leu Phe Pro Asp Leu Leu Thr Gly Phe Phe Leu Pro
20 25 30

Met Asn Phe
35

<210> 2804
<211> 15
<212> PRT
<213> Homo sapiens

<400> 2804
Phe Leu Phe Ile Asn Val Gln Leu Pro Leu Cys Leu Ala Ser Arg
1 5 10 15

<210> 2805
<211> 2
<212> PRT
<213> Homo sapiens

<400> 2805
Lys Leu
1

<210> 2806
<211> 23
<212> PRT
<213> Homo sapiens

<400> 2806
Met Phe Ser His Asn Gly Lys Gly Lys Ala Ala Leu Trp Gly Leu Phe
1 5 10 15

Leu Leu Val His Glu Ser His
20

<210> 2807
<211> 33
<212> PRT
<213> Homo sapiens

<400> 2807
Met Gly Pro Ser Phe Phe Phe Leu Phe Ser Val Ala Phe Ser Ile Phe
1 5 10 15

Arg Val His Leu Ala Leu Pro Pro Asn Leu Ile Lys Asn Val Ser Asp
20 25 30

Leu

<210> 2808
<211> 18
<212> PRT
<213> Homo sapiens

<400> 2808
Glu Lys Val Thr Arg Phe His Asn Ala Phe Leu Phe Pro Asn His Trp
1 5 10 15

Tyr Ser

<210> 2809
<211> 20
<212> PRT
<213> Homo sapiens

<400> 2809
Met Trp Trp Pro Ser Trp Met Thr Ser Ser Thr Gly Pro Ala Gly Val
1 5 10 15

Leu Cys Gly Pro
20

<210> 2810
<211> 13
<212> PRT
<213> Homo sapiens

<400> 2810
Glu Phe Arg Ala Gly Phe Leu Leu Leu Leu His Gly Met
1 5 10

<210> 2811
<211> 4
<212> PRT
<213> Homo sapiens

<400> 2811
Met Asn Ser Pro
1

<210> 2812
<211> 39
<212> PRT
<213> Homo sapiens

<400> 2812

```
Met Leu Ser Phe Arg Ile Ile Ser Ser Phe Tyr Ile Ile Leu Val Phe
  1               5                  10                  15

Cys Ser Tyr Val Leu Arg Ala His Thr Leu Leu Gly Ser Val Ser Pro
             20                  25                  30

Arg Glu Lys Trp Tyr Glu Lys
         35
```

<210> 2813
<211> 8
<212> PRT
<213> Homo sapiens

<400> 2813
```
Met Leu Phe Phe Lys Leu Ala Ile
  1               5
```

<210> 2814
<211> 40
<212> PRT
<213> Homo sapiens

<400> 2814
```
Met Leu Ile Lys Lys Leu Trp Phe Leu Gln Asp Phe Val Phe Arg Asp
  1               5                  10                  15

Ser Gly Lys Glu His Ile Asn Gln Lys Glu Glu Leu Thr Ser Ile Leu
             20                  25                  30

Leu Val Leu Lys Ile Thr Asp Tyr
         35                  40
```

<210> 2815
<211> 62
<212> PRT
<213> Homo sapiens

<400> 2815
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Met Ala Met Tyr Cys Gly Leu His Gly Leu Thr Val Leu Thr Lys Met
  1               5                  10                  15

Leu Pro Gly Cys Met Ser Ala Trp Lys Lys Leu Ser Arg Asn Thr Trp
             20                  25                  30

Val Lys Lys Ile Ser Thr Pro Arg Ser Ala Ser Ile Phe Met Ser Val
         35                  40                  45

Arg Trp Ser Ala Arg Val Ala Arg Ser Val Thr Cys Thr Pro
     50                  55                  60
```

<210> 2816
<211> 36

<212> PRT
<213> Homo sapiens

<400> 2816
Met Phe Asn Ser Leu Leu Ala Phe Phe Leu Ile Leu Trp Gly Cys Ile
1 5 10 15

Thr Ser Leu Lys Asp Ile Val Ile Ile Ser Tyr Lys Val Lys Ile Lys
20 25 30

Lys Asp Cys Val
35

<210> 2817
<211> 33
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2817
Met Ala Leu Ile Leu Leu Leu Xaa Val Leu Met Glu Val Thr Leu Glu
1 5 10 15

Gly Lys Lys Lys Met Asp Gly Val His Met Glu Glu Met Val Gln Lys
20 25 30

Thr

<210> 2818
<211> 26
<212> PRT
<213> Homo sapiens

<400> 2818
Met Leu Val Leu Thr Phe Val Ser Val Tyr His Leu Asn Val Phe Met
1 5 10 15

Tyr Leu Met Val Phe Cys Gly Cys Phe Ser
20 25

<210> 2819
<211> 9
<212> PRT
<213> Homo sapiens

<400> 2819
Met Val Ser Ser Pro Gln Gly Leu Cys
1 5

<210> 2820
<211> 17
<212> PRT
<213> Homo sapiens

<400> 2820
Tyr Cys Ile Phe Thr Phe Leu Ser Thr Ala Asp Val Thr Ile Tyr Gly
1 5 10 15

Gln

<210> 2821
<211> 25
<212> PRT
<213> Homo sapiens

<400> 2821
Lys Leu Ile Trp Gln Val Leu Leu Val Phe Leu Ile Ile Ile Ile Leu
1 5 10 15

Asn Pro Lys Tyr Ser Asn Phe Leu Asn
20 25

<210> 2822
<211> 18
<212> PRT
<213> Homo sapiens

<400> 2822
Met Thr Gly Leu His Met Thr Leu Leu Ile Ser Phe Ile Tyr Val Ser
1 5 10 15

Thr Phe

<210> 2823
<211> 45
<212> PRT
<213> Homo sapiens

<400> 2823
Met Gly Phe Ile Gly Leu Met Val Ala Met Ile Phe Ile Met Leu Phe
1 5 10 15

Gly Ser Trp Asp His Lys Asn Val Cys Leu Phe Leu Glu Tyr Leu Gly
20 25 30

Ser Leu Lys Arg Lys Gly Ile Lys Lys Pro Leu His Leu
35 40 45

<210> 2824

<211> 7
<212> PRT
<213> Homo sapiens

<400> 2824
Met Thr Thr Leu Gln Gly Gly
1 5

<210> 2825
<211> 14
<212> PRT
<213> Homo sapiens

<400> 2825
Lys Pro Leu Phe Leu His Leu Pro Leu Leu Thr Leu Gln Ala
1 5 10

<210> 2826
<211> 59
<212> PRT
<213> Homo sapiens

<400> 2826
Met Gly Leu Ser Val Leu Leu Pro Leu Cys Leu Leu Gly Pro Gly Arg
1 5 10 15

Phe Thr Ser Gly Gln Lys Pro Leu Asp Thr Pro Gly Leu Gly Ala Ala
20 25 30

Val Leu Ser Val Arg Lys Ala Gly Leu Lys Met Arg Ser His Leu Thr
35 40 45

Pro Ser Val Cys Thr Val Pro Ser Pro Gly Ser
50 55

<210> 2827
<211> 34
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2827
Met Leu Thr Ser Leu Ile Cys Tyr Ala Ile Pro Cys Lys Phe Leu Asn
1 5 10 15

Phe Ala Val Pro Trp Phe Cys Xaa Ile Thr Pro Gly Ser Val Thr Met
20 25 30

Ala Thr

<210> 2828
<211> 34
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2828
Met Leu Thr Ser Leu Ile Cys Tyr Ala Ile Pro Cys Lys Phe Leu Asn
1 5 10 15

Phe Ala Val Pro Trp Phe Cys Xaa Ile Thr Pro Gly Ser Val Thr Met
20 25 30

Ala Thr

<210> 2829
<211> 38
<212> PRT
<213> Homo sapiens

<400> 2829
Met Arg Met Ile Ile Ile Ser Tyr Ile Lys Ile Cys Gly Arg Phe Thr
1 5 10 15

Val Met Ile Thr Leu Leu Val Pro Thr Leu Ser Leu Asn Leu His Asp
20 25 30

Pro Val Ala Ser Lys Asn
35

<210> 2830
<211> 31
<212> PRT
<213> Homo sapiens

<400> 2830
Met Gly Asn Leu Tyr Pro Lys Leu Gly Leu Lys Ile Ile Phe Ile Phe
1 5 10 15

Val Phe Gln Gln Thr Trp Val Leu Cys Pro Ala Met Asp Gln Lys
20 25 30

<210> 2831
<211> 77
<212> PRT
<213> Homo sapiens

<400> 2831

```
Val Thr Gln Ser Lys Trp Leu Ile Phe Tyr Ile Val Val Tyr Phe Val
  1               5                  10                  15

Leu Pro Ser Ser Leu Arg Asn Lys Ala Arg Ile Phe Ser Leu Phe Asp
             20                  25                  30

Ile Tyr Ser Glu Thr Lys Gly Leu Leu Asp Leu Met Ile Phe Leu Gln
         35                  40                  45

Leu Ser Glu Gly Ala Phe Ser Thr Ile Gln Val Ile Leu Ile His Thr
     50                  55                  60

Lys Val Glu Asn His Cys Thr Arg Ser Leu Cys Val Phe
 65                  70                  75
```

WO 2004/050683 PCT/US2003/038474

<210> 2832
<211> 13
<212> PRT
<213> Homo sapiens

<400> 2832
```
Met Leu Ser Val Ala Thr Asn Arg Ile Tyr Asn Ser Asn
  1               5                  10
```

<210> 2833
<211> 67
<212> PRT
<213> Homo sapiens

<400> 2833
```
Met Phe Asn Trp Asn Leu Trp Leu Thr Thr Leu Ile Thr Gly Leu Ala
  1               5                  10                  15

Gly Pro Leu Leu Leu Leu Leu Leu Gly Leu Val Phe Gly Pro Cys Ile
             20                  25                  30

Leu Asn Trp Phe Leu Lys Phe Ile Lys Gln Phe Ile Ala Ser Val Lys
         35                  40                  45

Leu Thr Tyr Leu Lys Thr Gln Tyr Asn Ser Leu Val Val Thr Glu Glu
     50                  55                  60

Ser Met Ile
 65
```

<210> 2834
<211> 18
<212> PRT
<213> Homo sapiens

<400> 2834
```
Met Cys Glu Ser Phe Pro Glu Gly Phe Cys Pro Cys Phe His Met Ser
  1               5                  10                  15

His Asn
```

<210> 2835
<211> 21
<212> PRT
<213> Homo sapiens

<400> 2835
Met Phe Lys Val Arg Gly Phe Leu Ser Ile Cys Leu Val Phe Cys Trp
1 5 10 15

Gln Val Thr Cys Arg
20

<210> 2836
<211> 47
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2836
Met Phe Lys Val Arg Gly Phe Leu Ser Ile Cys Leu Val Phe Cys Trp
1 5 10 15

Xaa Gly His Met Gln Val Ile Gly Tyr Gly Lys Gly Lys Met Pro Arg
20 25 30

Leu Leu Leu Gly Trp Ser Pro Ser Pro Lys Phe Lys Pro Pro Glu
35 40 45

<210> 2837
<211> 35
<212> PRT
<213> Homo sapiens

<400> 2837
Met Ser Leu Pro Leu Tyr Val Ser Leu Ser Asp Met Phe Tyr Ala Lys
1 5 10 15

Leu Ser Asp Phe Lys Phe Lys Ile Ser Glu Ile Lys Cys Pro Ser Leu
20 25 30

His Ile Val
35

<210> 2838
<211> 19
<212> PRT
<213> Homo sapiens

<400> 2838
Met Leu Val Leu Val Val Phe Cys Trp Ala Val Leu Val Tyr Phe His
1 5 10 15

Pro Ser Leu

<210> 2839
<211> 29
<212> PRT
<213> Homo sapiens

<400> 2839
Met Met Cys Phe Leu Phe Leu Asn Glu Ile Cys Leu Ala Ser Cys Met
1 5 10 15

Glu Asn Glu Phe Cys Trp Ser Ile Val Glu Thr Glu Thr
20 25

<210> 2840
<211> 36
<212> PRT
<213> Homo sapiens

<400> 2840
Met Lys Met Leu Ile Cys Ser Leu Thr Leu Leu Val Cys Leu Ser Pro
1 5 10 15

Arg Val Gly Arg Arg Ser Arg Tyr Tyr His Ser Lys Gly Thr Glu Ser
20 25 30

Val Ser Thr Leu
35

<210> 2841
<211> 18
<212> PRT
<213> Homo sapiens

<400> 2841
Met Asn Met Ile Cys Leu Ser Tyr Arg Leu Ala Leu Thr Cys Phe Phe
1 5 10 15

Phe Gln

<210> 2842
<211> 348
<212> PRT
<213> Homo sapiens

<400> 2842

```
Gly Thr Leu Leu Gly Lys Ala Leu Ala Ala Val Ser Leu Ser Leu Ala
  1               5                  10                  15

Leu Ala Ser Val Thr Ile Arg Ser Ser Arg Cys Arg Gly Ile Gln Ala
             20                  25                  30

Phe Arg Asn Ser Phe Ser Ser Ser Trp Phe His Leu Asn Thr Asn Val
         35                  40                  45

Met Ser Gly Ser Asn Gly Ser Lys Glu Asn Ser His Asn Lys Ala Arg
     50                  55                  60

Thr Ser Pro Tyr Pro Gly Ser Lys Val Glu Arg Ser Gln Val Pro Asn
 65                  70                  75                  80

Glu Lys Val Gly Trp Leu Val Glu Trp Gln Asp Tyr Lys Pro Val Glu
                 85                  90                  95

Tyr Thr Ala Val Ser Val Leu Ala Gly Pro Arg Trp Ala Asp Pro Gln
            100                 105                 110

Ile Ser Glu Ser Asn Phe Ser Pro Lys Phe Asn Glu Lys Asp Gly His
        115                 120                 125

Val Glu Arg Lys Ser Lys Asn Gly Leu Tyr Glu Ile Glu Asn Gly Arg
    130                 135                 140

Pro Arg Asn Pro Ala Gly Arg Thr Gly Leu Val Gly Arg Gly Leu Leu
145                 150                 155                 160

Gly Arg Trp Gly Pro Asn His Ala Ala Asp Pro Ile Ile Thr Arg Trp
                165                 170                 175

Lys Arg Asp Ser Ser Gly Asn Lys Ile Met His Pro Val Ser Gly Lys
            180                 185                 190

His Ile Leu Gln Phe Val Ala Ile Lys Arg Lys Asp Cys Gly Glu Trp
        195                 200                 205

Ala Ile Pro Gly Gly Met Val Asp Pro Gly Glu Lys Ile Ser Ala Thr
    210                 215                 220

Leu Lys Arg Glu Phe Gly Glu Glu Ala Leu Asn Ser Leu Gln Lys Thr
225                 230                 235                 240

Ser Ala Glu Lys Arg Glu Ile Glu Glu Lys Leu His Lys Leu Phe Ser
                245                 250                 255

Gln Asp His Leu Val Ile Tyr Lys Gly Tyr Val Asp Asp Pro Arg Asn
            260                 265                 270

Thr Asp Asn Ala Trp Met Glu Thr Glu Ala Val Asn Tyr His Asp Glu
        275                 280                 285

Thr Gly Glu Ile Met Asp Asn Leu Met Leu Glu Ala Gly Asp Asp Ala
    290                 295                 300

Gly Lys Val Lys Trp Val Asp Ile Asn Asp Lys Leu Lys Leu Tyr Ala
305                 310                 315                 320

Ser His Ser Gln Phe Ile Lys Leu Val Ala Glu Lys Arg Asp Ala His
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EP 2 354 956 A1

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                325                 330                 335

Trp Ser Glu Asp Ser Glu Ala Asp Cys His Ala Leu
            340                 345


<210> 2843
<211> 34
<212> PRT
<213> Homo sapiens

<400> 2843
Met Thr Ile Thr Leu Val Ala Phe His Leu Ile Leu Pro Ser Phe Ile
  1               5                  10                  15

Ile Trp Phe Thr Trp Ile Cys His Pro Ile Asn Ser Glu Val Tyr Gln
             20                  25                  30

Gln Asn


<210> 2844
<211> 29
<212> PRT
<213> Homo sapiens

<400> 2844
Phe Phe Phe Phe Gly Phe Phe Val Phe Phe Lys His Gln Ser Ala Leu
  1               5                  10                  15

Ser Glu Cys Arg Val Leu Ile Gly Gly Met Met Met Val
             20                  25


<210> 2845
<211> 58
<212> PRT
<213> Homo sapiens

<400> 2845
Met Gln Gly Pro Gly Leu Ser Ala Ala Gly Gly Cys Leu Trp Ala Trp
  1               5                  10                  15

Leu Ser Leu Gly Thr Pro Phe Leu Ser Val Ala Thr Leu Ala Val Ser
             20                  25                  30

Gly Ala Ala Leu Asp Asn Phe Gly His Arg Asn Ser Gly Gly Gly Phe
         35                  40                  45

Trp Ser Ser Glu Val Ala Thr Gln Gln Val
     50                  55


<210> 2846
<211> 82
<212> PRT
```

<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (72)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2846
Cys Ser Xaa Ser Tyr Leu Trp Gln Val Asp Tyr Ile Gly Pro Leu His
1 5 10 15

Tyr Gly Arg Asp Arg Ile Xaa Ser Tyr Trp Asn Ile Leu Thr Gln Asp
20 25 30

Met Asp Leu Pro Phe Leu His Ala Ile Leu Leu Pro Arg Val Pro Ser
35 40 45

Met Asp Leu Gln Asn Cys Leu Val Asp Cys His Gly Ile Thr His Ser
50 55 60

Ile Ala Phe Asp Gln Gly Thr Xaa Ser Thr Asp Arg Asn Ala Ala Met
65 70 75 80

His Ser

<210> 2847
<211> 123
<212> PRT
<213> Homo sapiens

<400> 2847
Val Ala Arg Leu His Arg Leu Leu His Thr Phe Leu Leu Thr Phe Cys
1 5 10 15

Cys Leu Leu Met Ala Glu Glu Ala Ala Val Phe Ala Lys Tyr Leu Ala
20 25 30

His Gly Leu Pro Ala Gly Ala Pro Leu Arg Leu Val Phe Leu Leu Asn
35 40 45

Val Leu Leu Leu Gly Leu Trp Asn Phe Cys Cys Ser Val Pro Ser Ser
50 55 60

Ile Ser Thr Ser Thr Leu Thr Arg Trp Trp Ala Pro Gln Trp Ala Pro
65 70 75 80

Leu Pro Gly Thr Ser Pro Met Ala Ala Gly Ile Ile Ser Pro Gly Leu
85 90 95

Gln Gly Ala Gln Ala Met Gly Ser Ser Pro Val Pro Thr Pro Ala Ala
100 105 110

Ser Ile Thr Glu Arg Asn Lys Asn His Arg Ala
115 120

<210> 2848
<211> 72
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2848
Met Ser Pro Trp Asp Leu Pro Arg Arg Gly Leu Leu Leu Leu Val Leu
1 5 10 15

Pro Phe Leu Leu Ser Pro Arg Pro Leu Val Tyr Leu Leu Leu Pro Ala
20 25 30

Leu Pro Gln Leu Gln Xaa Leu Gln Ala His Gln Gln Thr Val Leu Ser
35 40 45

Ser Pro Leu Lys Leu Gln Thr Lys Pro Thr Leu Gln Ala Lys Leu His
50 55 60

Leu Gly Leu Glu Met Val Ile Ser
65 70

<210> 2849
<211> 13
<212> PRT
<213> Homo sapiens

<400> 2849
Tyr Thr His Thr Tyr Ala His Met Leu Trp Val Leu Pro
1 5 10

<210> 2850
<211> 37
<212> PRT
<213> Homo sapiens

<400> 2850
Met Leu Ile Arg Val Ile Ile Phe Lys Ser Phe Ser Gln Ser Cys Ile
1 5 10 15

Ser Ile Leu Ala Leu Ser Lys Leu Val Glu Leu Phe Ser Val Leu Leu
20 25 30

Asp Ile Leu His Ser

35

<210> 2851
<211> 37
<212> PRT
<213> Homo sapiens

<400> 2851
Met Asp Ile Lys Ile Leu Pro Met Cys Phe Val Phe Tyr Cys Cys Ser
1 5 10 15

Ile Cys Tyr Cys Thr Cys Asp Gly Thr Cys Ala Tyr Ile Ala Leu Lys
20 25 30

Gln Ile Ser Arg Ser
35

<210> 2852
<211> 31
<212> PRT
<213> Homo sapiens

<400> 2852
Met Tyr Leu Phe Ile Leu Leu Tyr Leu Cys Phe Tyr Phe Ser Ser Ser
1 5 10 15

Glu Asn Gly Phe Leu Val Ser Glu Val Tyr Leu Tyr Leu Lys Phe
20 25 30

<210> 2853
<211> 20
<212> PRT
<213> Homo sapiens

<400> 2853
Met Trp Pro Leu Leu Phe Ala Ile Cys Val Ser Val Ala Tyr Gly Leu
1 5 10 15

Ser Cys Ile Arg
20

<210> 2854
<211> 20
<212> PRT
<213> Homo sapiens

<400> 2854
Gly Lys Cys Leu Ile Asn Leu Val Ile Gly Trp Val Lys Tyr Met Gly
1 5 10 15

Glu Phe Tyr Met
20

<210> 2855
<211> 20
<212> PRT
<213> Homo sapiens

<400> 2855
Gly Lys Cys Leu Ile Asn Leu Val Ile Gly Trp Val Lys Tyr Met Gly
1 5 10 15

Glu Phe Tyr Met
20

<210> 2856
<211> 82
<212> PRT
<213> Homo sapiens

<400> 2856
Met Ser Cys Ser His Thr Cys Leu Tyr Leu Lys Pro Ser Val Cys Pro
1 5 10 15

Val Val Trp Gly Glu Val Met Asp Ser Ala Arg Trp Thr Cys Cys Gly
20 25 30

Trp Met Phe Pro Ala Cys Ala Gly Pro Glu Trp Thr Gly Ala Thr Ser
35 40 45

Gln His Val Arg Glu Asn His Cys His Thr Ile Pro Met Asp Phe Val
50 55 60

Leu Phe Leu Lys Lys Lys Lys Phe Phe Ser Val Asn Met Asn Phe Phe
65 70 75 80

Ser Met

<210> 2857
<211> 156
<212> PRT
<213> Homo sapiens

<400> 2857
Met Leu Thr Asp Met Met Lys Gly Asn Val Thr Asn Val Leu Pro Met
1 5 10 15

Ile Leu Ile Gly Gly Trp Ile Asn Met Thr Phe Ser Gly Phe Val Thr
20 25 30

Thr Lys Val Pro Phe Pro Leu Thr Leu Arg Phe Lys Pro Met Leu Gln
35 40 45

Gln Gly Ile Glu Leu Leu Thr Leu Asp Ala Ser Trp Val Ser Ser Ala
50 55 60

Ser Trp Tyr Phe Leu Asn Val Phe Gly Leu Arg Ser Ile Tyr Ser Leu

```
 65                  70                  75                  80

Ile Leu Gly Gln Asp Asn Ala Ala Asp Gln Ser Arg Met Met Gln Glu
                 85                  90                  95

Gln Met Thr Gly Ala Ala Met Ala Met Pro Ala Asp Thr Asn Lys Ala
            100                 105                 110

Phe Lys Thr Glu Trp Glu Ala Leu Glu Leu Thr Asp His Gln Trp Ala
        115                 120                 125

Leu Asp Asp Val Glu Glu Glu Leu Met Ala Lys Asp Leu His Phe Glu
    130                 135                 140

Gly Met Phe Lys Lys Glu Leu Gln Thr Ser Ile Phe
145                 150                 155
```

WO 2005/089286 PCT/US2005/008468

<210> 2858
<211> 31
<212> PRT
<213> Homo sapiens

<400> 2858
```
Met Gln Ser Leu Val Glu Asn Phe Leu Gly Leu Cys Leu Leu Cys Asn
  1               5                  10                  15

Tyr Leu Asn Met Ile Trp Gln Lys Leu Ala Cys Ile Gln Val Lys
             20                  25                  30
```

<210> 2859
<211> 17
<212> PRT
<213> Homo sapiens

<400> 2859
```
Met Ile Leu Val Gly Leu Trp Leu Ile Gln Trp Leu Leu Leu Lys Tyr
  1               5                  10                  15

Lys
```

<210> 2860
<211> 4
<212> PRT
<213> Homo sapiens

<400> 2860
```
Met Arg Ser Glu
  1
```

<210> 2861
<211> 126
<212> PRT

<213> Homo sapiens

<400> 2861

```
Met Ser Leu Gln Leu Asp Arg Arg Gly Met Trp Asn Met Leu Gly Pro
  1               5                  10                  15

Cys Leu Phe Ala Phe Val Ile Met Ala Ser Met Trp Ala Tyr Arg Cys
             20                  25                  30

Gly His Arg Arg Gln Cys Tyr Pro Thr Ser Trp Gln Arg Trp Ala Phe
         35                  40                  45

Tyr Leu Leu Pro Gly Val Ser Met Ala Ser Val Gly Ile Ala Ile Tyr
     50                  55                  60

Thr Ser Met Met Thr Ser Asp Asn Tyr Tyr Tyr Thr His Ser Ile Trp
 65                  70                  75                  80

His Ile Leu Leu Ala Gly Ser Ala Ala Leu Leu Leu Pro Pro Pro Asp
                 85                  90                  95

Gln Pro Ala Glu Pro Trp Ala Cys Ser Gln Lys Phe Pro Cys His Tyr
            100                 105                 110

Gln Ile Cys Lys Asn Asp Arg Glu Glu Leu Tyr Ala Val Thr
        115                 120                 125
```

<210> 2862
<211> 39
<212> PRT
<213> Homo sapiens

<400> 2862

```
Met Phe Ser Phe Tyr Ser His Asn Pro Leu Lys Pro Cys Leu Val Leu
  1               5                  10                  15

Leu Leu Phe Ala Ser Ala Val Gln Asp Val Ala Pro Phe Leu Leu Phe
             20                  25                  30

Glu His Gly Leu Val Thr Arg
         35
```

<210> 2863
<211> 24
<212> PRT
<213> Homo sapiens

<400> 2863

```
Met Cys Asn Leu Tyr Leu Ile Leu Tyr Phe Val Ile His Thr Asn Met
  1               5                  10                  15

Ser Arg His Cys Asp Ile Cys Leu
             20
```

<210> 2864

<211> 23
<212> PRT
<213> Homo sapiens

<400> 2864
Met Pro Ser Leu His Thr Phe Phe Leu Leu Leu Pro Phe Val Phe Met
1 5 10 15

Pro Val Ala Phe Thr Leu His
20

<210> 2865
<211> 38
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2865
Met Ala Lys Cys Ile Thr Ile Thr Leu Phe Thr Val Ile Xaa Phe Ala
1 5 10 15

Glu Asn Ile Ser Xaa Ser Trp Asn Cys Glu Ile Lys Leu Lys Ile Leu
20 25 30

Leu Val Lys Met Thr Asn
35

<210> 2866
<211> 38
<212> PRT
<213> Homo sapiens

<400> 2866
Met Ala Lys Cys Ile Thr Ile Thr Leu Phe Thr Val Ile Cys Phe Ala
1 5 10 15

Glu Asn Ile Ser Ser Ser Trp Asn Cys Glu Ile Lys Leu Lys Ile Leu
20 25 30

Leu Val Lys Met Thr Asn
35

<210> 2867
<211> 18
<212> PRT
<213> Homo sapiens

<400> 2867
Cys Leu Leu Leu Ser Lys Leu Leu His Leu Gln Pro Leu Ala Val Ala
1 5 10 15

Asp Ser

<210> 2868
<211> 40
<212> PRT
<213> Homo sapiens

<400> 2868
Met Phe Cys Thr Leu Trp Ile Gly Ile Leu Val Arg Lys Ser Ile Ala
1 5 10 15

Ser Arg Lys Arg Leu Met Ser Gln Leu Ala Gly Glu Thr Val Pro Ser
20 25 30

Phe Trp Val Ala Val Leu Val Lys
35 40

<210> 2869
<211> 35
<212> PRT
<213> Homo sapiens

<400> 2869
Met Val Ile Leu Leu Ala His Pro Cys Ile His Gln Pro Gly Ile Ser
1 5 10 15

Leu Asn Leu Phe Ala Ser Glu Phe Leu Leu Thr Phe Gln Tyr Ile Gly
20 25 30

Ile Ile Asp
35

<210> 2870
<211> 11
<212> PRT
<213> Homo sapiens

<400> 2870
Met Tyr Phe Ser Ile Glu Gly Gly Val Phe Gln
1 5 10

<210> 2871
<211> 24
<212> PRT
<213> Homo sapiens

<400> 2871

```
Val Cys Val Thr Val Ser Asn Pro Ile Ser Cys Leu Ser Val Ala Pro
  1               5                  10                  15

Ser His Leu Leu Asp Gln Ala Ala
             20
```

<210> 2872
<211> 26
<212> PRT
<213> Homo sapiens

<400> 2872

```
Met Ser Thr Ile Met Phe Ser Leu Trp Thr Ile Cys Val Gly Leu Pro
  1               5                  10                  15

Pro Ala Arg Ser Leu Leu Tyr Pro His Gln
             20                  25
```

<210> 2873
<211> 37
<212> PRT
<213> Homo sapiens

<400> 2873

```
Met Gln Ile Leu His Trp Gln Trp Leu Leu Cys Val Lys Tyr Phe Pro
  1               5                  10                  15

Phe Gly Leu Ile Phe Ile His Ile Val Ser Leu Asn Lys Gly Glu Thr
             20                  25                  30

Thr Tyr Arg Arg Asn
         35
```

<210> 2874
<211> 39
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2874

```
Met Thr Leu Ala Phe Val Val Leu Ala Leu Trp Pro Asn Gly Arg Xaa
  1               5                  10                  15

His Val Leu Val His Met Cys Trp Leu Leu Phe Leu Lys Ser Trp Gln
             20                  25                  30

Cys Gln His Met Gly Gly Ile
         35
```

<210> 2875
<211> 1
<212> PRT
<213> Homo sapiens

<400> 2875
Leu
1

<210> 2876
<211> 148
<212> PRT
<213> Homo sapiens

<400> 2876
Met Ser Pro Arg Trp Ala Leu Val Thr Leu Leu Gly Phe Ser His Arg
1 5 10 15

Lys Gln Arg Cys Leu Pro Leu Pro Leu Leu His Ile Leu Pro Leu Pro
20 25 30

Ser Arg Ala Gly Phe Trp Val His Leu Ser Thr Gly Arg Cys Ser Gln
35 40 45

Gly Val Gly Ala Gly Gly Gly Val Cys Gly Gln Val Leu Gly Gly Thr
50 55 60

Arg Lys Ser Arg Gly Val Ala His Ala Asp Gln Ala His Val Ala His
65 70 75 80

Gly Ala Glu Leu Pro Arg Thr Ala His Asp Ser Ala Thr Phe Ser Pro
85 90 95

Phe Gln Pro Arg Arg Asp Val Thr Leu Glu Leu Leu Trp His Phe Cys
100 105 110

Gln Ala Ser Pro Ala Pro Ile Ala Leu Arg Ser Leu Leu Phe Val Arg
115 120 125

Asp Leu Gln Arg Leu Thr Phe Leu Leu Phe Ser His His Ser Ile Val
130 135 140

Ile Leu Arg Asn
145

<210> 2877
<211> 7
<212> PRT
<213> Homo sapiens

<400> 2877
Met His Leu Val Thr Val Cys
1 5

<210> 2878

<211> 10
<212> PRT
<213> Homo sapiens

<400> 2878
Met Ser Leu Cys Gly Ser Arg Asp Leu Cys
1 5 10

<210> 2879
<211> 8
<212> PRT
<213> Homo sapiens

<400> 2879
Met Trp Ile Leu Leu Tyr Leu Ile
1 5

<210> 2880
<211> 15
<212> PRT
<213> Homo sapiens

<400> 2880
Met Met Phe Leu Leu Ile Phe Val Trp Tyr Leu Gln Pro Tyr Pro
1 5 10 15

<210> 2881
<211> 18
<212> PRT
<213> Homo sapiens

<400> 2881
Met Gln Leu Trp Leu Lys Ser Gly Leu Leu Leu Ser Phe Ile Leu Ile
1 5 10 15

Leu Pro

<210> 2882
<211> 7
<212> PRT
<213> Homo sapiens

<400> 2882
Leu Gly Phe Leu Leu Leu Thr
1 5

<210> 2883
<211> 77
<212> PRT
<213> Homo sapiens

<400> 2883
Met Ile Arg Met Leu Val Leu Ser Leu Leu Leu Thr Phe Tyr Leu Leu
1 5 10 15

Ser Ile Trp Ser Ile Ala Phe Phe Leu Ala Cys Gln Ala Ala Arg Ile
20 25 30

Phe Arg Asp His Leu Val Gln Ser Leu Ile Arg Cys Leu His Pro His
35 40 45

Thr Tyr Val Pro Ser Lys Gly Ser Ala Phe Asp Ile Val Phe Ile Leu
50 55 60

His Leu Phe Ser Leu Ser Arg Asp Ser Glu Arg Ala Glu
65 70 75

<210> 2884
<211> 37
<212> PRT
<213> Homo sapiens

<400> 2884
Met Ser Leu Ser Leu Ile Tyr Phe Ser Val Ser Phe Thr Thr Phe Gly
1 5 10 15

Val Lys Ser Ser His Asp Leu Tyr Ile Pro Arg Leu Leu Leu Leu Lys
20 25 30

Ile Leu Tyr Ile Leu
35

<210> 2885
<211> 62
<212> PRT
<213> Homo sapiens

<400> 2885
Arg Gly Arg Gly Arg Leu Leu Gly Leu Ser Ser Phe Leu Cys Ile Ile
1 5 10 15

Leu Gly Leu Ala Trp Thr Ala Pro Ala Ser Glu Ser Cys Gly Pro His
20 25 30

Pro Leu Ala Ala Glu Pro Ser Thr Val Ile Leu Gly Ala Ile Phe Pro
35 40 45

Cys Arg Thr Gly Ser Leu Ser Pro Ala Pro Thr Phe Gly Leu
50 55 60

<210> 2886
<211> 62
<212> PRT
<213> Homo sapiens

<400> 2886
Arg Gly Arg Gly Arg Leu Leu Gly Leu Ser Ser Phe Leu Cys Ile Ile
1 5 10 15

Leu Gly Leu Ala Trp Thr Ala Pro Ala Ser Glu Ser Cys Gly Pro His
20 25 30

Pro Leu Ala Ala Glu Pro Ser Thr Val Ile Leu Gly Ala Ile Phe Pro
35 40 45

Cys Arg Thr Gly Ser Leu Ser Pro Ala Pro Thr Phe Gly Leu
50 55 60

<210> 2887
<211> 42
<212> PRT
<213> Homo sapiens

<400> 2887
Met Ala Ala Pro Ser Phe Leu Thr Ser Phe Leu Leu Pro Ser Ser Leu
1 5 10 15

Pro Gln Val Leu Ser Arg Glu Thr Pro Phe Pro Ala Ile Ser Ser Gly
20 25 30

Arg Leu Gly Arg Cys Trp Ala Asp Thr Ser
35 40

<210> 2888
<211> 48
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2888
Met Val Ala Val Trp Trp Phe Ser Leu Val Met Leu Phe Glu Ser Phe
1 5 10 15

Leu Leu Cys Val Ser Ala Leu Pro Val Ser Phe Ile Phe Ser Tyr Ile
20 25 30

Phe Met Met Val Asp Ile Val Leu Leu Leu Pro Asn Val Xaa Leu Pro
35 40 45

<210> 2889
<211> 11
<212> PRT
<213> Homo sapiens

<400> 2889
Met Leu Leu Gly Ile Ser Ala Val Gly Leu Phe
1 5 10

<210> 2890
<211> 40
<212> PRT
<213> Homo sapiens

<400> 2890
Gly Ile Leu Leu Val Gln Thr Tyr Leu Gly Cys Cys Trp Gly Arg His
1 5 10 15

Leu Gly Phe Ser Val Ser Cys Ile His Arg Gly Arg Pro Phe Gln Ile
20 25 30

Gln Glu His Trp Ile Arg Glu Ser
35 40

<210> 2891
<211> 36
<212> PRT
<213> Homo sapiens

<400> 2891
Met Pro Ser Pro Leu Leu Ser Ser Val Asn Thr Asn Thr Phe Pro Thr
1 5 10 15

Pro Leu Cys Ser Arg Arg Pro Val Ala Gly Arg Phe Ser Val Pro Val
20 25 30

Val Trp Ile Leu
35

<210> 2892
<211> 28
<212> PRT
<213> Homo sapiens

<400> 2892
Met Asn Asp Pro Pro Thr Ala Pro His Gly Leu Phe Leu Phe Leu Trp
1 5 10 15

Leu Phe Ser Leu Arg Ser Gly Gly Phe Thr Arg Ile
20 25

<210> 2893
<211> 46
<212> PRT
<213> Homo sapiens

<400> 2893

```
Val Tyr Val His Thr Leu Cys Phe Val Cys Val Trp Phe Gly Ala Ala
  1               5                  10                  15

Cys Val Cys Val Cys Val Cys Val Cys Asp Ile Cys Tyr Ala Cys Val
             20                  25                  30

Cys Gln Cys Val Leu Gly Val Pro Ala Pro Leu Ser Trp Arg
         35                  40                  45
```

<210> 2894
<211> 119
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (68)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2894

```
Met Gly Ser Ala Leu Gly Leu Ala Gly Ile Ser Gly Ser Leu Gly Ser
  1               5                  10                  15

Gly Ala Arg Leu Arg Trp Ala Arg Ser Arg Thr Gln Gly Ala Gly Leu
             20                  25                  30

Trp Gly Val Leu Ala Ala Gly Ala Val Ser Gly Glu Ser Gln Ser Cys
         35                  40                  45

Arg Ala Xaa Lys Glu Arg Glu Gly Ala Val Xaa Ala Met Pro Pro Val
     50                  55                  60

Gly Gln Gln Xaa Asn Arg Gln Ala Leu Pro Ala His Pro Pro Thr His
 65                  70                  75                  80

Leu Gly Val His Pro Pro His Trp Ala Trp Pro Arg Gln Val Ser Leu
                 85                  90                  95

Pro Gly Pro Gly Pro Ala Gln Pro Ala Ser Leu Phe Leu Leu Pro Pro
            100                 105                 110

His Ser Pro Gly Thr Gly Leu
        115
```

<210> 2895
<211> 65
<212> PRT

<213> Homo sapiens

<400> 2895
Met Trp Gly Arg Arg Gln Cys Ala Leu Trp Met Val Phe Thr Ser Thr
1 5 10 15

Ala His Thr Thr Leu Gly Ser Arg Pro Ser Thr Lys Gln Glu Ser Ala
20 25 30

Arg Thr Ala Arg Pro Trp Ser Ser Lys Arg Leu Arg Trp Pro Gly Leu
35 40 45

Leu Ser Thr Leu Ala Arg Arg Thr Arg Thr Ser Ser Ser Pro Met Thr
50 55 60

Thr
65

<210> 2896
<211> 4
<212> PRT
<213> Homo sapiens

<400> 2896
Met Phe Leu Ile
1

<210> 2897
<211> 17
<212> PRT
<213> Homo sapiens

<400> 2897
Met Phe Leu Phe Cys Ile Phe Ser Ser Pro Ser Pro Leu Thr Gln Arg
1 5 10 15

Ile

<210> 2898
<211> 37
<212> PRT
<213> Homo sapiens

<400> 2898
Met Leu Ile Gly Leu Leu Ser Leu Ala Pro Asp Ser Ala Cys Ser Trp
1 5 10 15

Leu Pro Val Leu Thr Asp His Ile Cys His Cys His Arg Ile Ser Ser
20 25 30

Ala Ser Ala Ser Ala
35

<210> 2899
<211> 55
<212> PRT
<213> Homo sapiens

<400> 2899
Met Ala Gly Thr Arg Pro Thr Gly Lys Arg Cys Trp Ser Ile Trp Val
1 5 10 15

Thr Leu Leu Ile Thr Arg Cys Pro Phe Asp Leu Ala Gly Pro Ala Ser
20 25 30

Leu Leu Met Arg Ser Leu Cys Trp Pro Pro Cys Ser Thr Arg Ser Leu
35 40 45

Pro Ser Val Pro Ala Val Ser
50 55

<210> 2900
<211> 33
<212> PRT
<213> Homo sapiens

<400> 2900
Met Ala Arg Gly Gly Thr Trp Trp Ser Leu Leu Ser Phe Trp Thr Trp
1 5 10 15

Gly Cys Gln Thr Arg Ala His Pro His Thr Arg Pro Gly Pro Leu Arg
20 25 30

Pro

<210> 2901
<211> 8
<212> PRT
<213> Homo sapiens

<400> 2901
Met His Tyr Leu Gln Thr Gly Gly
1 5

<210> 2902
<211> 8
<212> PRT
<213> Homo sapiens

<400> 2902
Met His Tyr Leu Gln Thr Gly Gly
1 5

<210> 2903

<211> 24
<212> PRT
<213> Homo sapiens

<400> 2903
Met Val Ser His Gly Cys His Val Pro Leu Phe Ala Leu Phe Met Val
1 5 10 15

Leu Pro Ser Ser Gln Gly Leu Pro
20

<210> 2904
<211> 36
<212> PRT
<213> Homo sapiens

<400> 2904
Met Pro Leu Phe Gly Gly Asn Leu Gly Tyr Ala Trp Ala Trp Phe Thr
1 5 10 15

Pro Ile Thr Trp Val Ala Val Leu Ala His Leu Ile Val Ser Ser Ile
20 25 30

His Pro Gly Lys
35

<210> 2905
<211> 41
<212> PRT
<213> Homo sapiens

<400> 2905
Met Ala Arg Val Ser Ala Arg Trp Arg Ser Leu Leu Ala Trp Trp Val
1 5 10 15

Ser Ser Cys Pro Ile Ser Leu Glu Gly Arg Ala Gly Ser His Glu His
20 25 30

Gly Glu Tyr Pro Trp Met Leu His Ser
35 40

<210> 2906
<211> 33
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2906
Phe Leu Phe Trp Gly Val Met Lys Ile Leu Gly Cys Ala Pro Ile Phe
1 5 10 15

```
Ser Phe Leu Arg Leu Ser Leu Ile Xaa Asp Arg His Leu Gly Val Val
             20                  25                  30

Phe
```

<210> 2907
<211> 123
<212> PRT
<213> Homo sapiens

<400> 2907

```
Met Ala Phe Leu Ser Phe Cys Cys Cys Ala Phe Ala Leu Tyr Tyr Trp
  1               5                  10                  15

Ser Ser Ala Phe Ser Leu Ser Ile Val Phe Phe Phe Leu Tyr Arg Ile
             20                  25                  30

Tyr Thr Pro Lys Phe Phe His Leu Ala Ser Ser His Asn Leu Thr Ser
         35                  40                  45

Pro Ser Gly Ser Cys Pro Val Phe Leu Leu Leu Phe Ile Leu Ser Leu
     50                  55                  60

Lys Gly Arg Val Tyr Ser His Tyr Leu His Phe Ser Thr Cys His Leu
 65                  70                  75                  80

Ala Phe His Pro Leu Gln Pro Glu Phe Asp Pro Gln Asn Ser Thr Glu
                 85                  90                  95

Thr Thr Leu Ser Lys Ala Thr Asn Tyr Cys Leu Ile Val Lys Val Asn
            100                 105                 110

Gly Leu Phe Phe Ile Phe Ile Ile Tyr Gly Ile
        115                 120
```

<210> 2908
<211> 37
<212> PRT
<213> Homo sapiens

<400> 2908

```
Met Asn Ile Val Trp Phe Val Met Ser His Met Cys Phe Lys Met Ala
  1               5                  10                  15

Leu Cys Leu Gly Leu Pro Tyr Val Asn Gly Ser Cys Val Cys Leu Leu
             20                  25                  30

Phe Lys Pro Trp Glu
         35
```

<210> 2909
<211> 16
<212> PRT
<213> Homo sapiens

<400> 2909
Met Phe Leu Asp Phe Leu Phe Cys Pro Val Gly Leu Phe Val Ser Leu
1 5 10 15

<210> 2910
<211> 182
<212> PRT
<213> Homo sapiens

<400> 2910
Met Thr Leu Ala Ala Tyr Lys Glu Lys Met Lys Glu Leu Pro Leu Val
1 5 10 15

Ser Leu Phe Cys Ser Cys Phe Leu Ala Asp Pro Leu Asn Lys Ser Ser
20 25 30

Tyr Lys Tyr Glu Ala Asp Thr Val Asp Leu Asn Trp Cys Val Ile Ser
35 40 45

Asp Met Glu Val Ile Glu Leu Asn Lys Cys Thr Ser Gly Gln Ser Phe
50 55 60

Glu Val Ile Leu Lys Pro Pro Ser Phe Asp Gly Val Pro Glu Phe Asn
65 70 75 80

Ala Ser Leu Pro Arg Arg Arg Asp Pro Ser Leu Glu Glu Ile Gln Lys
85 90 95

Lys Leu Glu Ala Ala Glu Glu Arg Arg Lys Tyr Gln Glu Ala Glu Leu
100 105 110

Leu Lys His Leu Ala Glu Lys Arg Glu His Glu Arg Glu Val Ile Gln
115 120 125

Lys Ala Ile Glu Glu Thr Thr Thr Ser Ser Arg Trp Leu Arg Lys Asn
130 135 140

Trp Pro Arg Arg Trp Asn Pro Thr Arg Arg Thr Gly Arg Pro Thr Ser
145 150 155 160

Pro Pro Cys Trp Asn Gly Cys Lys Arg Arg Thr Ser Thr Pro Arg Arg
165 170 175

Cys Gly Lys Thr Arg Ser
180

<210> 2911
<211> 120
<212> PRT
<213> Homo sapiens

<400> 2911
Ala Thr Ala Leu Pro Ser Met Ser Ser Thr Phe Trp Ala Phe Met Ile

```
  1               5                  10                  15

Leu Ala Ser Leu Leu Ile Ala Tyr Cys Ser Gln Leu Ala Ala Gly Thr
             20                  25                  30

Cys Glu Ile Val Thr Leu Asp Arg Asp Ser Ser Gln Pro Arg Arg Thr
         35                  40                  45

Ile Ala Arg Gln Thr Ala Arg Cys Ala Cys Arg Lys Gly Gln Ile Ala
     50                  55                  60

Gly Thr Thr Arg Ala Arg Pro Ala Cys Val Asp Ala Arg Ile Ile Lys
 65                  70                  75                  80

Thr Lys Gln Trp Cys Asp Met Leu Pro Cys Leu Glu Gly Glu Gly Cys
                 85                  90                  95

Asp Leu Leu Ile Asn Arg Ser Gly Trp Thr Cys Thr Gln Pro Gly Gly
            100                 105                 110

Arg Ile Lys Thr Thr Thr Val Ser
        115                 120



<210> 2912
<211> 36
<212> PRT
<213> Homo sapiens

<400> 2912
Met Arg Asn Ala Leu His Ser Met Asn Ile Asn Phe His Leu Pro Phe
  1               5                  10                  15

Phe Leu Val Phe Ile Leu Leu Phe Ile Leu Leu Leu Ile His Asp Ser
             20                  25                  30

Tyr Thr Tyr Leu
         35



<210> 2913
<211> 15
<212> PRT
<213> Homo sapiens

<400> 2913
Met Ile Ser Asp Thr Glu Pro Phe Phe Leu Trp Leu Leu Ala Ala
  1               5                  10                  15



<210> 2914
<211> 48
<212> PRT
<213> Homo sapiens

<400> 2914
Gly Thr Pro Ser Leu Leu Pro Tyr Ser Cys Ser Arg Phe Ser Gly Leu
  1               5                  10                  15
```

Asn Gln Val Asn Arg Gly Pro Glu Pro Pro Leu Cys Leu Leu Glu Ile
20 25 30

Pro Lys Thr Glu Met Cys Ser Arg Ser Arg Ser Lys Thr Leu Ser Leu
35 40 45

<210> 2915
<211> 37
<212> PRT
<213> Homo sapiens

<400> 2915
Met Arg Ser Leu Gly Ser Thr Leu Val Ser Asp Thr Trp Asp Arg Gly
1 5 10 15

Ala Phe Ala Thr Leu Val Val Val Thr Pro Pro His Leu Pro Ala Ser
20 25 30

Phe Thr Asp Ser Lys
35

<210> 2916
<211> 40
<212> PRT
<213> Homo sapiens

<400> 2916
Met Cys Lys Met Phe Asn Leu Pro Phe Leu Leu Leu Val Ser Val Ala
1 5 10 15

Leu Trp Cys Lys Gln Leu Lys Thr Leu Asn Val Tyr Thr Ile Arg Pro
20 25 30

Arg Arg Gln Met Lys Tyr Phe Phe
35 40

<210> 2917
<211> 36
<212> PRT
<213> Homo sapiens

<400> 2917
Met Thr Asn Leu Val Ile Ser Phe Thr Leu Arg Phe Ser Ser Phe Pro
1 5 10 15

Val Leu Pro Phe Cys Leu Leu Leu Cys Asn Ile Ala Phe Gly Leu Asn
20 25 30

Asn Thr Phe Ser
35

<210> 2918
<211> 39
<212> PRT
<213> Homo sapiens

<400> 2918
Met Thr Arg Pro Thr Ile Val Ser Ser Cys Leu Trp Ala Val Arg Gln
1 5 10 15

Leu Val Gly Thr Arg Ser Asn Pro Arg Phe Phe Leu Gln Tyr Ser Gly
20 25 30

Tyr Asn Leu Ser Trp Leu Leu
35

<210> 2919
<211> 182
<212> PRT
<213> Homo sapiens

<400> 2919
Met Ala Ala Leu Ala His Glu Ala Val Gly Thr Arg Asp Leu Leu Ala
1 5 10 15

Ala Gly Cys Cys Cys Leu Ala Arg Trp Gly Ser Met Glu Glu Leu Gly
20 25 30

Leu Pro Pro Arg Pro Ala Pro Ala Ala Arg Met Leu Gly Ser His Gly
35 40 45

Gly Thr Arg Pro Gly Ala Pro Ala Ser Pro Ser Gly Trp Cys Gly Gln
50 55 60

Leu Phe Pro Ala Ser Gln Cys Pro Gly Gly Ser Cys Leu Ala Asp Ser
65 70 75 80

Ala Trp Ser Pro Ala Gly Phe Arg Lys Thr Gln Leu His Val Trp Asp
85 90 95

Ser Ser Pro Ala Leu Gly Cys Gly Val Ser Val His Leu Arg Ala Gly
100 105 110

Gly Pro Thr His Arg Leu Pro Leu Gln Val His Pro Arg Ala Trp Ala
115 120 125

Arg Trp Ala Pro Gly Thr Trp Pro Ala Asp Ala Ala Thr Ser Asp Gln
130 135 140

Cys Cys Val Glu Glu Pro Arg Ala Ala Pro Gly Lys Pro Gly Phe Asn
145 150 155 160

Ser Thr Arg Lys Arg Asn Leu Leu Cys Phe Val Arg Ala Cys Ser Phe
165 170 175

Ser Ser Phe Leu Ser Leu
180

<210> 2920
<211> 142
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2920
Met Xaa Ala Leu Ala His Glu Ala Val Gly Thr Arg Asp Leu Leu Ala
1 5 10 15

Ala Gly Cys Cys Cys Leu Ala Arg Trp Gly Ser Met Glu Glu Leu Gly
20 25 30

Leu Pro Pro Arg Pro Ala Pro Ala Ala Arg Met Leu Gly Ser His Gly
35 40 45

Gly Thr Arg Pro Gly Ala Pro Ala Ser Pro Ser Gly Trp Cys Gly Gln
50 55 60

Leu Phe Pro Ala Ser Gln Cys Pro Gly Gly Ser Cys Leu Ala Asp Ser
65 70 75 80

Ala Trp Ser Pro Ala Gly Phe Arg Lys Thr Gln Leu His Val Trp Asp
85 90 95

Ser Ser Pro Ala Leu Gly Cys Gly Val Ser Val His Leu Arg Ala Gly
100 105 110

Gly Pro Thr His Arg Leu Pro Leu Gln Val His Pro Arg Ala Trp Gly
115 120 125

Pro Leu Gly Thr Trp His Leu Ala Cys Arg Cys Cys Tyr Glu
130 135 140

<210> 2921
<211> 35
<212> PRT
<213> Homo sapiens

<400> 2921
Met Leu Arg Val Phe Phe Phe Ser Leu Val Val Gly Thr Ser Thr Ala
1 5 10 15

Arg Thr Ile Ser Tyr Ser Ser Leu His Pro Trp His Met His Glu Asn
20 25 30

Ile Ser Thr
35

<210> 2922
<211> 57

<212> PRT
<213> Homo sapiens

<400> 2922
Met Tyr Trp Cys Thr Tyr Cys Met Glu Ala Trp Leu Ser Ser Gln Gln
1 5 10 15

Leu Val Leu His Arg Asn Met Arg Pro Cys Ile Phe Gln Met Phe Ser
20 25 30

Leu Ser Arg Leu Phe Thr Met Glu Ser Thr Thr Ser Cys Thr His Ser
35 40 45

Cys Cys Ser Ser Ala Met Ala Ser Pro
50 55

<210> 2923
<211> 27
<212> PRT
<213> Homo sapiens

<400> 2923
Met Pro Ala Ser Leu Arg Asn Pro Thr Val Leu His Met Leu Ser Asn
1 5 10 15

Thr Ile Phe Ser Tyr Pro Leu Ser Leu Pro Cys
20 25

<210> 2924
<211> 40
<212> PRT
<213> Homo sapiens

<400> 2924
Gly Cys His His Leu Phe Leu Tyr Ile Phe Cys Asn Ile Leu Lys Leu
1 5 10 15

Leu Pro Ser Leu Ile Ile Ile Ser Val Cys Val Cys Lys Asp Asn Gln
20 25 30

Ala Phe Lys Phe Ile Lys His Val
35 40

<210> 2925
<211> 244
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (78)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

<222> (222)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2925
Met His Leu Ala Leu Tyr Cys Phe Ala Ser Ser Gln Leu Ser Thr Ala
1 5 10 15

Leu Ser Leu Leu Tyr Arg Ala Arg Tyr Leu Met Leu Leu Val Phe Gly
20 25 30

Glu Asp His Pro Glu Met Ala Leu Leu Asp Asn Asn Ile Gly Leu Val
35 40 45

Leu His Gly Val Met Glu Tyr Asp Leu Ser Leu Arg Phe Leu Glu Asn
50 55 60

Ala Leu Ala Val Ser Thr Lys Tyr His Gly Pro Lys Ala Xaa Lys Val
65 70 75 80

Ala Leu Ser His His Leu Val Ala Arg Val Tyr Glu Ser Lys Ala Glu
85 90 95

Phe Arg Ser Ala Leu Gln His Glu Lys Glu Gly Tyr Thr Ile Tyr Lys
100 105 110

Thr Gln Leu Gly Glu Asp His Glu Lys Thr Lys Glu Ser Ser Glu Tyr
115 120 125

Leu Lys Cys Leu Thr Gln Gln Ala Val Ala Leu Gln Arg Thr Met Asn
130 135 140

Glu Ile Tyr Arg Asn Gly Ser Ser Ala Asn Ile Pro Pro Leu Lys Phe
145 150 155 160

Thr Ala Pro Ser Met Ala Ser Val Leu Glu Gln Leu Asn Val Ile Asn
165 170 175

Gly Ile Leu Phe Ile Pro Leu Ser Gln Lys Asp Leu Glu Asn Leu Lys
180 185 190

Ala Glu Val Ala Arg Arg His Gln Leu Gln Glu Ala Ser Arg Asn Arg
195 200 205

Asp Arg Ala Glu Glu Pro Met Ala Thr Glu Pro Ala Pro Xaa Gly Ala
210 215 220

Pro Gly Asp Leu Gly Ser Gln Pro Pro Ala Ala Lys Asp Pro Ser Pro
225 230 235 240

Ser Val Gln Gly

<210> 2926
<211> 48
<212> PRT
<213> Homo sapiens

<400> 2926
His Leu Gln His Cys Val Ser Cys Gly Cys Ala Val Thr Gly Ile Lys

```
  1               5                  10                  15

Ser Ser Ala Phe Asn Ala Lys Gly Ser Glu Ile Phe Leu Lys Leu Ile
             20                  25                  30

Ser Cys Pro Met Gln Val Phe Ser Thr Thr Cys Ile Thr Ser Thr Leu
         35                  40                  45
```

<210> 2927
<211> 71
<212> PRT
<213> Homo sapiens

<400> 2927

```
Met Val Gln His Lys Thr Thr Phe Gln Val Leu Phe Leu Phe Gly Val
  1               5                  10                  15

Ser Phe Gln Val Phe Lys Cys Ile Ser Gln Pro Glu His Leu Phe Asn
             20                  25                  30

His Ile His Gly Ser Leu Leu Asn Ala Glu Leu Leu His Met Leu Asp
         35                  40                  45

Leu Lys Ile Ile Ile Ile Glu Glu Thr Ile Gly Leu Val Val Pro Arg
     50                  55                  60

Lys Val Ser Asp Val Tyr Val
 65                  70
```

<210> 2928
<211> 44
<212> PRT
<213> Homo sapiens

<400> 2928

```
Asp Leu Gln Ile Gln Trp Pro Ile Leu Leu Ser Leu Ser Cys Glu Gly
  1               5                  10                  15

Val Phe Gln Val Leu Lys Gln Ser Lys Asn His Leu Gly Pro Ser Leu
             20                  25                  30

Arg Lys His Phe Ser Gly Gln Val Gly Phe Arg Leu
         35                  40
```

<210> 2929
<211> 14
<212> PRT
<213> Homo sapiens

<400> 2929

```
Gly Phe Tyr Thr Phe Leu Pro Ser Leu Pro Gly Ala Leu Tyr
  1               5                  10
```

<210> 2930
<211> 139
<212> PRT
<213> Homo sapiens

<400> 2930
Met Lys Lys Ile Val Asp Gln Asn Thr Lys Leu Ala Pro Glu Thr Lys
1 5 10 15

Ala Val Ile His Trp Ile Met Asp Ile Pro Phe Val Leu Ser Ala Asn
20 25 30

Leu His Gly Gly Asp Leu Val Ala Asn Tyr Pro Tyr Asp Glu Thr Arg
35 40 45

Ser Gly Ser Ala His Glu Tyr Ser Ser Ser Pro Asp Asp Ala Ile Phe
50 55 60

Gln Ser Leu Ala Arg Ala Tyr Ser Ser Phe Asn Pro Ala Met Ser Asp
65 70 75 80

Pro Asn Arg Pro Pro Cys Arg Lys Asn Asp Asp Asp Ser Ser Phe Val
85 90 95

Asp Gly Thr Thr Asn Gly Val Leu Gly Thr Ala Tyr Leu Glu Gly Cys
100 105 110

Lys Thr Ser Ile Thr Leu Ala Ala Thr Val Leu Arg Ser Pro Trp Ser
115 120 125

Leu Ala Val Arg Ser Ser His Leu Lys Arg Leu
130 135

<210> 2931
<211> 2
<212> PRT
<213> Homo sapiens

<400> 2931
Met Tyr
1

<210> 2932
<211> 9
<212> PRT
<213> Homo sapiens

<400> 2932
Met Arg Phe Leu Phe Ile Phe Cys Phe
1 5

<210> 2933

<211> 12
<212> PRT
<213> Homo sapiens

<400> 2933
Met Glu Arg Val Arg Thr Ser Met Glu Cys Phe Cys
1 5 10

<210> 2934
<211> 48
<212> PRT
<213> Homo sapiens

<400> 2934
Met Leu Val Ile Leu Leu Asp Met Phe Phe Val Val Val Val Thr Trp
1 5 10 15

Asn Phe Cys Ile Leu Asn Lys Phe Gly Asp Gln Ile Gln Lys Lys Lys
20 25 30

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
35 40 45

<210> 2935
<211> 31
<212> PRT
<213> Homo sapiens

<400> 2935
Met Val Ile Trp Ser Thr Tyr Asp Thr Leu Ala Val Leu Ile Phe Gly
1 5 10 15

Val Leu Ala Leu Val Leu Ser His Leu His Val Trp Val Phe Leu
20 25 30

<210> 2936
<211> 48
<212> PRT
<213> Homo sapiens

<400> 2936
Glu Leu Ser Cys Trp Gln Asp Leu Leu Glu Leu Ala Arg Gln Leu Trp
1 5 10 15

Leu Trp Leu Leu Leu Arg Ser Trp Val Val Arg Ser Pro Ser Ala Gln
20 25 30

Trp Trp Gly Val Lys Phe Thr Gln Leu Arg Ser Arg Arg Gln Arg Cys
35 40 45

<210> 2937
<211> 59
<212> PRT
<213> Homo sapiens

<400> 2937
Met Gly Gly His Gly Ser Ala Gly Leu Cys Leu Lys His Thr Leu Gln
1 5 10 15

Leu Gln Leu Phe Ser Leu Val Phe Cys Leu Lys Leu Ile Leu Thr Glu
20 25 30

Ser Asp Phe Val Phe Ile Ser Phe Gln Gly Leu Gly Cys Leu Trp Ala
35 40 45

Ser Pro Gly Gly Leu Glu Val Gly Lys Gly Lys
50 55

<210> 2938
<211> 1
<212> PRT
<213> Homo sapiens

<400> 2938
Phe
1

<210> 2939
<211> 44
<212> PRT
<213> Homo sapiens

<400> 2939
Met Ser Gly Leu Ser Gly Ala Pro Trp Gly Thr Trp Ala Leu Pro Leu
1 5 10 15

Ala His Leu Ser Leu Leu Ser Arg Thr Cys Leu Ser Ser Ser Pro Leu
20 25 30

Gly Phe Arg Leu Phe Ser Arg His Leu Arg His Leu
35 40

<210> 2940
<211> 38
<212> PRT
<213> Homo sapiens

<400> 2940
Met Leu Ser Leu Pro Ala Pro Leu Arg Val Asn Arg Gly Leu Trp Gln
1 5 10 15

Leu Cys Thr Gly Ala Gly Leu Trp Leu Leu Gln Gly Ala Leu Pro Val

```
            20                  25                  30

Thr Arg Ser Trp Ala Val
        35
```

<210> 2941
<211> 40
<212> PRT
<213> Homo sapiens

<400> 2941

```
Met Ala Gly Val Ser Thr Ser Pro Gly Pro Phe Leu Arg Tyr Leu Pro
  1               5                  10                  15

Ala Cys Leu Pro Glu Leu Thr Cys Arg Pro Arg Lys Met Leu Thr Glu
            20                  25                  30

Val Leu Leu Glu Val Ala Pro Ala
        35                  40
```

<210> 2942
<211> 133
<212> PRT
<213> Homo sapiens

<400> 2942

```
Met Phe Thr Asp Leu Ser Ser Ser Trp Cys Met Thr Met Thr Pro Val
  1               5                  10                  15

Gly Ser Met Thr Ser Ser Ala Ser Ser Pro Ala Leu Ser Arg Arg Cys
            20                  25                  30

Arg Lys Gly Arg Gln Thr Leu Gly Arg Arg Cys Ser Gly Thr Val Ser
        35                  40                  45

Thr Gln Val Ser Gly Gln Glu Glu Glu Leu Gln Glu Leu Arg Asp Gly
    50                  55                  60

Ser Ala Gly Pro Val His Gly Gly Glu Gly Ala His Leu Pro Gly Leu
65                  70                  75                  80

His His Gly Trp Leu Pro Asp Gln Leu His Gly Gly His Arg Leu His
                85                  90                  95

Arg Leu Gln Trp Gly Pro Glu Glu Gln Pro Val Pro Ala Leu Pro Gln
            100                 105                 110

Ser Pro Thr Ala Gln Pro Leu Pro Ala Gly Pro Ala Cys Ser Gly Arg
        115                 120                 125

His Leu Pro Gly Leu
    130
```

<210> 2943
<211> 8

<212> PRT
<213> Homo sapiens

<400> 2943
Trp Ala Phe Ser Ala Trp Leu Leu
1 5

<210> 2944
<211> 9
<212> PRT
<213> Homo sapiens

<400> 2944
Ile Phe Leu Ile Leu Leu Ile Cys Val
1 5

<210> 2945
<211> 29
<212> PRT
<213> Homo sapiens

<400> 2945
Arg Val Phe Leu Asn His Glu Leu Tyr His Val Thr Phe Leu Leu Val
1 5 10 15

Lys Leu Ser Val Ala Leu His Cys Gln Gln Ser Pro Ala
20 25

<210> 2946
<211> 90
<212> PRT
<213> Homo sapiens

<400> 2946
Met Ala Asp Arg Ala Pro Arg Gln Pro Thr Ser Leu Gly Ser Ser Pro
1 5 10 15

Gln Arg Cys Gly Ser Pro Pro Ser Ala Pro Pro Pro Pro Pro Asp Arg
20 25 30

Gly Glu Arg Ile Glu Asp Cys Leu Ala Pro Leu Cys Pro Pro Val Val
35 40 45

Gly Gly Arg Gly Gly Cys Ala Leu Ser Arg Phe Leu Pro Val Asp Leu
50 55 60

Ser Leu Leu Arg Ser Ser Arg Thr Ala Ala Val Glu Leu Val Ala Gly
65 70 75 80

Gly Val Cys Arg Ser Pro Ser Gln Glu Asn
85 90

<210> 2947

<211> 42
<212> PRT
<213> Homo sapiens

<400> 2947
Ile Ile Val Arg Val Gly Phe Ala Leu Ser Cys Ser Val Ser Cys Pro
1 5 10 15

Phe Phe Ala Leu Leu Ser Cys Asp Ala Phe His His Ile Met Thr Gln
20 25 30

Gln Glu Gly Pro His Lys Val Pro Ala Pro
35 40

<210> 2948
<211> 42
<212> PRT
<213> Homo sapiens

<400> 2948
Met Lys Ile Phe Met Tyr Val Pro Ile Ile Leu Phe Arg Ser Gln Cys
1 5 10 15

Leu Cys Leu Ser Leu Thr Glu Ile Ile Glu Leu Leu Ser Ser Ser Lys
20 25 30

Leu Asn Lys Thr Leu Glu Leu Lys Ala Ser
35 40

<210> 2949
<211> 6
<212> PRT
<213> Homo sapiens

<400> 2949
Gly Val Ser Leu His Gln
1 5

<210> 2950
<211> 66
<212> PRT
<213> Homo sapiens

<400> 2950
Met Gly Ser Arg Leu Ala Pro Leu Leu Ser Ala Cys Leu Phe Val Ser
1 5 10 15

Val Ile Leu Gly Arg Met Val Ile Leu Lys Asn Pro Gly Val Leu Gly
20 25 30

Gln Arg Gln Ala Gly Pro Ser Pro Gly Ala Pro Gly Leu Pro Ser Pro
35 40 45

Ser Val Arg Ala Pro Leu Gly His Lys Cys Ser Glu Arg Ser Pro Ser
50 55 60

Ala Thr
65

<210> 2951
<211> 87
<212> PRT
<213> Homo sapiens

<400> 2951
Met Glu Gly Pro Leu Gln Ser Phe Lys Arg Arg Leu Trp Gly Gly Val
1 5 10 15

Glu Cys Ala Leu Gly Leu Asp Thr Cys Arg Gly Ala Pro Gly Trp Pro
20 25 30

Arg Arg Leu Ala Leu Ala Arg Gly Pro Val Leu Arg Gly Pro Gln Arg
35 40 45

Leu Thr Leu Gly Gln Ala Pro Ala Arg Arg Gly Arg Ser Pro Gly Leu
50 55 60

Pro Gly Arg His Val His Ile Ala Ile Ala Thr Arg Gln Leu Arg Leu
65 70 75 80

Gly Phe Thr Lys Ser Leu Pro
85

<210> 2952
<211> 22
<212> PRT
<213> Homo sapiens

<400> 2952
Met Leu Met Pro Pro Pro Pro Pro Ala Arg Leu Phe Phe Leu Tyr Phe
1 5 10 15

Val Leu Phe Leu Leu Gly
20

<210> 2953
<211> 46
<212> PRT
<213> Homo sapiens

<400> 2953
Met Arg Leu Gly Ile Ser Glu Leu Ser Phe Leu Leu Gly Ala Leu Gly
1 5 10 15

Tyr Leu Ser Leu Pro Arg Val Gly Pro Leu Glu Pro Phe Leu Pro Trp
20 25 30

Val Gly Ala Val Ser Gly Cys Trp Glu Gly Leu Cys Trp Pro
35 40 45

<210> 2954
<211> 51
<212> PRT
<213> Homo sapiens

<400> 2954
Met Thr Thr Ser Gln Ala Ile Ser Cys Leu Ala His Trp Ala Cys Ala
1 5 10 15

Trp Glu Thr Ala Cys Cys Trp Met Ala Arg Arg Arg Ala His Cys Gly
20 25 30

Ser Val Gly Pro Arg Ser Leu Pro Ala Ala Val Gly Gly Arg Gly Ala
35 40 45

Gly Arg Thr
50

<210> 2955
<211> 66
<212> PRT
<213> Homo sapiens

<400> 2955
Met Val Leu Tyr Leu Ser Ser His Trp Phe Ser Pro His Val Leu Ser
1 5 10 15

Pro His Glu Val Val Leu Cys Leu Leu Ser Val Val Leu Val Leu Ala
20 25 30

Thr Trp Ser Pro Asp Leu Gln Ile Trp Leu Pro Pro Pro Gly Pro Phe
35 40 45

Gln Leu Leu Leu Ile Cys Val Phe Tyr Gly Gly Ala Gly Lys Arg Trp
50 55 60

His Leu
65

<210> 2956
<211> 66
<212> PRT
<213> Homo sapiens

<400> 2956
Met Val Leu Tyr Leu Ser Ser His Trp Phe Ser Pro His Val Leu Ser
1 5 10 15

Pro His Glu Val Val Leu Cys Leu Leu Ser Val Val Leu Val Leu Ala
20 25 30

Thr Trp Ser Pro Asp Leu Gln Ile Trp Leu Pro Pro Pro Gly Pro Phe
35 40 45

Gln Leu Leu Leu Ile Cys Val Phe Tyr Gly Gly Ala Gly Lys Arg Trp

50 55 60

His Leu
65

<210> 2957
<211> 66
<212> PRT
<213> Homo sapiens

<400> 2957
Met Val Leu Tyr Leu Ser Ser His Trp Phe Ser Pro His Val Leu Ser
1 5 10 15

Pro His Glu Val Val Leu Cys Leu Leu Ser Val Val Leu Val Leu Ala
20 25 30

Thr Trp Ser Pro Asp Leu Gln Ile Trp Leu Pro Pro Pro Gly Pro Phe
35 40 45

Gln Leu Leu Leu Ile Cys Val Phe Tyr Gly Gly Ala Gly Lys Arg Trp
50 55 60

His Leu
65

<210> 2958
<211> 22
<212> PRT
<213> Homo sapiens

<400> 2958
Met Val Cys Cys Trp Arg Gly Cys Cys Trp Ser Trp Ser Ile Val Leu
1 5 10 15

Leu Trp Leu Gly Thr Val
20

<210> 2959
<211> 60
<212> PRT
<213> Homo sapiens

<400> 2959
Met Lys Asn Ser Leu Ala Ala Gln Gln Ser Phe Ser Ala Cys Ser Gln
1 5 10 15

Ile Gly Glu Val Ser Thr Cys Tyr Ser Leu Cys Arg Arg Pro Ser Phe
20 25 30

Leu Leu Cys Phe Pro Ser Leu Val Phe Pro Pro Ala Gly Ser Trp Ala
35 40 45

Gly Val Pro Gly Cys Leu Pro Glu Ser Arg Leu His
50 55 60

<210> 2960
<211> 60
<212> PRT
<213> Homo sapiens

<400> 2960
Met Lys Asn Ser Leu Ala Ala Gln Gln Ser Phe Ser Ala Cys Ser Gln
1 5 10 15

Ile Gly Glu Val Ser Thr Cys Tyr Ser Leu Cys Arg Arg Pro Ser Phe
20 25 30

Leu Leu Cys Phe Pro Ser Leu Val Phe Pro Pro Ala Gly Ser Trp Ala
35 40 45

Gly Val Pro Gly Cys Leu Pro Glu Ser Arg Leu His
50 55 60

<210> 2961
<211> 76
<212> PRT
<213> Homo sapiens

<400> 2961
Val Gly His His Ser Arg Pro Trp Thr Ser Pro Asn Leu Gly Thr Ala
1 5 10 15

Leu Phe Pro Asn Val Ser Ile Leu Leu Thr Gly Ala Ser Ser Ala Gln
20 25 30

Pro Trp Glu Pro Ile Gln Gly Leu Val Arg Thr Gly Leu Pro Gly Val
35 40 45

Gly Val Trp Gly Val Pro Ser Gly Val Ile Asp Ser Pro Thr Ala Pro
50 55 60

Ala Leu Thr Gly Pro Gln Val Ala Ala Met Val Asn
65 70 75

<210> 2962
<211> 32
<212> PRT
<213> Homo sapiens

<400> 2962
Trp Ala Leu Ala Leu Ala Thr His Phe Leu Gln Asn Leu Gly Phe Gly
1 5 10 15

Lys Asn Met Ala Ser Arg Gln Ser Lys Leu Ser Arg Gln Trp Gly Trp
20 25 30

<210> 2963
<211> 29
<212> PRT
<213> Homo sapiens

<400> 2963
Met Glu Leu Leu Phe Phe Leu Leu Leu Pro Tyr Phe Leu Leu Phe Ile
1 5 10 15

Cys Leu Ile Ser Cys Ile Ser Gln Ile Tyr Ile Tyr Leu
20 25

<210> 2964
<211> 64
<212> PRT
<213> Homo sapiens

<400> 2964
Met Pro Ser Phe Ile Ile His Ser Asn Pro Ile Trp Leu Gly Ala Leu
1 5 10 15

Leu Trp Val Ser His Cys Pro Ser Ser Ile Leu Gly Ser Leu Arg Pro
20 25 30

Arg Gly Gly Lys Ile Gln Leu Arg Val Gly Gly Ser Glu Pro Arg Arg
35 40 45

Ile Met Lys Ala Thr Cys Phe Gly Asn Asp Leu Pro Leu Pro Val Val
50 55 60

<210> 2965
<211> 39
<212> PRT
<213> Homo sapiens

<400> 2965
Met Ala Gly Lys Ala Ser Leu Thr Ser Ser Ala Ser Val Ile Ala Trp
1 5 10 15

Pro Ser Leu Leu Cys Leu Leu Leu Leu Trp Met Pro Val Ile Gly Phe
20 25 30

Cys Ala Tyr His Thr Pro Met
35

<210> 2966
<211> 129
<212> PRT
<213> Homo sapiens

<400> 2966
Met Ser Lys Pro Leu Ser Tyr Met Thr Trp Leu Phe Leu Leu Pro Ser
1 5 10 15

Pro Leu Val Phe Val Ser Leu Phe Ser Pro Leu Ala Leu Pro Gly Ser
20 25 30

Pro Leu Ala Leu Pro Arg Gly Trp Phe Ser Ala Trp Ala Leu Ala Asp
35 40 45

Val Ser Val Ala Ala Gly His Thr Asp Arg Ser Gly Leu Gly Ser Val
50 55 60

Leu Arg Asp Leu Val Lys Pro Gly Asp Glu Asn Leu Arg Glu Met Asn
65 70 75 80

Lys Lys Leu Gln Asn Met Leu Glu Glu Gln Leu Thr Lys Asn Met His
85 90 95

Leu His Lys Asp Met Glu Val Leu Ser Gln Glu Ile Val Arg Leu Ser
100 105 110

Lys Glu Cys Val Gly Pro Pro Asp Pro Asp Leu Glu Pro Gly Glu Thr
115 120 125

Ser

<210> 2967
<211> 66
<212> PRT
<213> Homo sapiens

<400> 2967
Met Cys Cys Pro Ser Leu Leu Lys Phe Tyr Phe Arg Phe Ser Ile Gly
1 5 10 15

Tyr Leu Phe Cys Phe Leu Tyr Phe Phe Ser Leu Ser Leu Pro Pro Ser
20 25 30

Arg Pro Pro Arg Pro Ile Pro Phe Leu Pro Leu Asp Phe His Pro Leu
35 40 45

Gly Cys Leu Ala His Leu Tyr Ala Pro Ala Leu Gly Thr Gly Pro Asn
50 55 60

Thr Trp
65

<210> 2968
<211> 55
<212> PRT
<213> Homo sapiens

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Gln Val Tyr Cys Leu Tyr Pro Leu Val Asn Phe Phe Ile Ser Val Ile
20 25 30

Ile Arg Leu Lys Lys Lys Lys Lys Lys Lys Lys Glu Ser Ser Leu Leu
35 40 45

Gly Asn Ala Trp Thr Leu Cys
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<210> 2969
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<220>
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1 5 10 15

Leu Pro Pro Lys Tyr Leu Ser Thr Pro Leu Asn Val Trp Ser Gln Asp
20 25 30

Lys Phe Leu Ile Leu Ala Leu Gln Phe Lys Met Tyr Lys Lys
35 40 45

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Leu
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<211> 40
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<213> Homo sapiens

<400> 2971
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1 5 10 15

Asp Tyr Asn Ser Met Asp Asn Leu Asn Leu Gly Gly Arg Glu Glu Asp
20 25 30

Ala Glu Leu Ser Val Asn Leu Ala
35 40

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<211> 34
<212> PRT
<213> Homo sapiens

<400> 2972
Leu Glu Leu Thr Val Leu Ser Ser Leu Arg Thr Phe Glu Tyr Thr Leu
1 5 10 15

Pro Ile Ser Leu Pro Tyr Phe Leu Phe Ala Ala Phe Ala Leu Glu Leu
20 25 30

Cys Phe

<210> 2973
<211> 21
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<213> Homo sapiens

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Asp Cys Pro Ala Arg Ala Ala Pro Gln Pro Ala Asp Leu Thr Ala Ala
1 5 10 15

Pro Ala Ser Val Ala
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<210> 2974
<211> 35
<212> PRT
<213> Homo sapiens

<400> 2974
Met Thr Met Lys Leu Ser Val Phe Leu Ser Val Gln Asn Leu Gly Leu
1 5 10 15

Leu Ser Val Val Leu Lys Arg Ala Leu Ala Leu Ser Thr Pro Ser Leu
20 25 30

Glu Ile Cys
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<210> 2975
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Met
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<210> 2976

<211> 28
<212> PRT
<213> Homo sapiens

<400> 2976
Met Val Leu Phe Asn Ala His Gly Cys Phe Leu Ile Cys Gly Leu Leu
1 5 10 15

Val Ser Arg Ala Met His Asn Val Ser Glu Gly Ser
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<213> Homo sapiens

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Phe Gly Phe Val
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<210> 2978
<211> 1
<212> PRT
<213> Homo sapiens

<400> 2978
Met
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<210> 2979
<211> 17
<212> PRT
<213> Homo sapiens

<400> 2979
Met Val Gly Leu Trp Phe Val Phe Ser Leu Tyr Ser Leu Val Thr Phe
1 5 10 15

Leu

<210> 2980
<211> 38
<212> PRT
<213> Homo sapiens

<400> 2980
Met Leu Gly Cys Leu Leu Val Val Phe Leu Cys Cys Leu Ile Leu Gly
1 5 10 15

Lys Leu Leu Cys Lys Ala Lys Asn Pro Val Asn Thr Ile Leu Ser Phe
20 25 30

Thr Gly Arg His Tyr Trp
35

<210> 2981
<211> 13
<212> PRT
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<400> 2981
Gly Asn Ser Leu Thr Leu Ala Ile Leu Leu Leu Ser Phe
1 5 10

<210> 2982
<211> 59
<212> PRT
<213> Homo sapiens

<400> 2982
Met Trp Arg Leu Ala Pro Arg Arg Leu Arg Gln Val His Ala Lys Pro
1 5 10 15

Ala Trp Leu Ser Ser Gly Phe Leu Leu Thr Arg Trp Met Pro Val Pro
20 25 30

Arg Pro Pro Asp Arg Ala Leu Gln His Trp Arg Gly Leu Trp Trp Gly
35 40 45

Pro Arg Cys Arg Thr Gly Thr Ala Ser Ala His
50 55

<210> 2983
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<213> Homo sapiens

<400> 2983
Asp Cys Val Leu Val Leu Leu Leu Met Pro Arg Leu Ile Cys Lys Ala
1 5 10 15

Glu Leu Ile Arg Lys Gln Ala Gln Glu Lys Phe Glu Leu Ser Glu Asn
20 25 30

Cys Ser Glu Arg Pro Gly Leu Arg Gly Ala Ala Gly Glu Gln Leu Ser
35 40 45

Phe Ala Ala Gly Leu Val Tyr Ser Leu Ser Leu Leu Gln Ala Thr Leu
50 55 60

His Arg Tyr Glu His Ala Leu Ser Gln Cys Ser Val Asp Val Tyr Lys
65 70 75 80

Lys Val Gly Ser Leu Tyr Pro Glu Met Ser Ala His Glu Arg Ser Leu
85 90 95

Asp Phe Leu Ile Glu Leu Leu His Lys Asp Gln Leu Asp Glu Thr Val

Patent Application Publication

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            100                 105                 110

Asn Val Glu Pro Leu Thr Lys Ala Ile Lys Tyr Tyr Gln His Leu Tyr
        115                 120                 125

Ser Ile His Leu Ala Glu Gln Pro Glu Asp Cys Thr Met Gln Leu Ala
    130                 135                 140

Asp His Ile Lys Phe Thr Gln Ser Ala Leu Asp Cys Met Ser Val Glu
145                 150                 155                 160

Val Arg Arg Leu Arg Ala Phe Leu Gln Gly Gly Gln Glu Ala Thr Asp
                165                 170                 175

Ile Ala Leu Leu Leu Arg Asp Leu Glu Thr Ser Cys Ser Asp Ile Arg
            180                 185                 190

Gln Phe Cys Lys Lys Ile Arg Arg Arg Met Pro Gly Thr Asp Ala Pro
        195                 200                 205

Gly Ile Pro Ala Ala Leu Ala Phe Gly Pro Gln Val Ser Asp Thr Leu
    210                 215                 220

Leu Asp Cys Arg Lys His Leu Thr Trp Val Val Ala Val Leu Gln Glu
225                 230                 235                 240

Val Ala Ala Ala Ala Ala Gln Leu Ile Ala Pro Leu Ala Glu Asn Glu
                245                 250                 255

Gly Leu Leu Val Ala Ala Leu Glu Glu Leu Ala Phe Lys Ala Ser Glu
            260                 265                 270

Gln Ile Tyr Gly Thr Pro Ser Ser Ser Pro Tyr Glu Cys Leu Arg Gln
        275                 280                 285

Ser Cys Asn Ile Leu Ile Ser Thr Met Asn Lys Leu Ala Thr Ala Met
    290                 295                 300

Gln Glu Gly Glu Tyr Asp Ala Glu Arg Pro Pro Ser Lys Pro Pro Pro
305                 310                 315                 320

Val Glu Leu Arg Ala Ala Ala Leu Arg Ala Glu Ile Thr Asp Ala Glu
                325                 330                 335

Gly Leu Gly Leu Lys Leu Glu Asp Arg Glu Thr Val Ile Lys Glu Leu
            340                 345                 350

Lys Lys Ser Leu Lys Ile Lys Gly Glu Glu Leu Ser Glu Ala Asn Val
        355                 360                 365

Arg Leu Ser Leu Leu Glu Lys Lys Leu Asp Ser Ala Ala Lys Asp Ala
    370                 375                 380

Asp Glu Arg Ile Glu Lys Val Gln Thr Arg Leu Glu Glu Thr Gln Ala
385                 390                 395                 400

Leu Leu Arg Lys Lys Glu Lys Glu Phe Glu Glu Thr Met Asp Ala Leu
                405                 410                 415

Gln Ala Asp Ile Asp Gln Leu Glu Ala Glu Lys Ala Glu Leu Lys Gln
            420                 425                 430
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Arg Leu Asn Ser Gln Ser Lys Arg Thr Ile Glu Gly Leu Arg Gly Pro
435 440 445

Pro Pro Ser Gly Ile Ala Thr Leu Val Ser Gly Ile Ala Gly Gly Ala
450 455 460

Ile Pro Gly Gln Ala Pro Gly Ser Val Pro Gly Pro Gly Leu Val Lys
465 470 475 480

Asp Ser Pro Leu Leu Leu Gln Gln Ile Ser Ala Met Arg Leu His Ile
485 490 495

Ser Gln Leu Gln His Glu Asn Ser Ile Leu Lys Gly Ala Gln Met Lys
500 505 510

Ala Ser Leu Ala Ser Leu Pro Pro Leu His Val Ala Lys Leu Ser His
515 520 525

Glu Gly Pro Gly Ser Glu Leu Pro Ala Gly Ala Leu Tyr Arg Lys Thr
530 535 540

Ser Gln Leu Leu Glu Thr Leu Asn Gln Leu Ser Thr His Thr His Val
545 550 555 560

Val Asp Ile Thr Arg Thr Ser Pro Ala Ala Lys Ser Pro Ser Ala Gln
565 570 575

Leu Met Glu Gln Val Ala Gln Leu Lys Ser Leu Ser Asp Thr Val Glu
580 585 590

Lys Leu Lys Asp Glu Val Leu Lys Glu Thr Val Ser Gln Arg Pro Gly
595 600 605

Ala Thr Val Pro Thr Asp Phe Ala Thr Phe Pro Ser Ser Ala Phe Leu
610 615 620

Arg Ala Lys Glu Glu Gln Gln Asp Asp Thr Val Tyr Met Gly Lys Val
625 630 635 640

Thr Phe Ser Cys Ala Ala Gly Phe Gly Gln Arg His Arg Leu Val Leu
645 650 655

Thr Gln Glu Gln Leu His Gln Leu His Ser Arg Leu Ile Ser
660 665 670

<210> 2984
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<400> 2984
Met Phe Phe Ser Gln Leu Asn Cys Cys Ile Ser Gln Thr Leu Gly Ser
1 5 10 15

Met Lys Ala Gly Arg Gly Asn Leu Asn Ile Asn Tyr Glu His Lys Phe
20 25 30

Glu Gly Lys Lys Thr Lys Asn His Tyr Leu Ile Lys Leu

35 40 45

<210> 2985
<211> 27
<212> PRT
<213> Homo sapiens

<400> 2985
Met Val Val His Ile Leu Trp Ser Trp Cys Cys Arg Gly Leu Ala Gly
1 5 10 15

Thr Ala Ala Leu Pro Arg Val Leu Phe Tyr Phe
20 25

<210> 2986
<211> 56
<212> PRT
<213> Homo sapiens

<400> 2986
Met Gly Pro His Trp Gly Arg Glu Ala Ser Cys Phe Leu Trp Phe Pro
1 5 10 15

Ala Gly Gln Ser Cys Pro Pro Phe Pro Val Leu Pro Thr Leu Gly Asn
20 25 30

Arg Glu Gly Arg Arg Gly Glu Glu Arg Glu Asp Pro Gly Gly Leu Gly
35 40 45

Arg Ser Ser Leu Lys Arg Leu Leu
50 55

<210> 2987
<211> 60
<212> PRT
<213> Homo sapiens

<400> 2987
Met Met Ser Phe Val Trp Ser Arg Val Pro Tyr Cys Ile Leu Leu Trp
1 5 10 15

Cys Phe Leu His Leu Cys Gln Pro Val Thr Val Ser Trp Ser Leu Ser
20 25 30

Phe Met Thr Leu Thr Leu Trp Lys Ser Pro Gly Gln Leu Phe Tyr Arg
35 40 45

Ile Phe Pro Ser Phe Ser Leu Phe Asn Val Phe Thr
50 55 60

<210> 2988
<211> 61
<212> PRT

<213> Homo sapiens

<400> 2988
Met Leu Val Val Ser Lys Ala Ser His Phe Thr Leu Phe Leu Asn Cys
1 5 10 15

Leu Phe Leu Lys Ile Cys Leu Lys Lys Ile Leu Arg Trp Gln His Ile
20 25 30

Gln Val Ala Thr Glu Gly Gly Val Thr Ser Asp Lys Leu Thr Ser Met
35 40 45

Ser Leu Ala Asn Leu Asp Phe Trp Ser Gln Ala Pro Asp
50 55 60

<210> 2989
<211> 31
<212> PRT
<213> Homo sapiens

<400> 2989
Met Pro Cys Arg Met Asp Arg Met Thr Asp Arg Asp Glu Ala Glu Thr
1 5 10 15

Ser Thr Asp Pro Ser His Gln Val Glu Pro Phe Phe Phe Leu Phe
20 25 30

<210> 2990
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<400> 2990
Met Thr Arg Ala Ile Leu Cys Leu Leu Leu Cys Cys Pro Gly His
1 5 10 15

<210> 2991
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<400> 2991
Met Lys Ile Leu Val Leu
1 5

<210> 2992
<211> 149
<212> PRT
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<400> 2992
Met Ala Tyr Thr Leu Leu Gly Leu Leu Trp Leu His Arg Gly Gly Ala
1 5 10 15

Val Gly Leu Gly Pro Arg Tyr Leu Lys Asp Val Phe Ala Ala Met Ala
20 25 30

Leu Leu Tyr Gly Pro Val Gln Trp Leu Arg Leu Trp Thr Gln Trp Arg
35 40 45

Arg Ala Ala Val Leu Asp Gln Trp Leu Thr Leu Pro Ile Phe Ala Trp
50 55 60

Pro Val Ala Trp Cys Leu Tyr Leu Asn Arg Gly Trp Arg Pro Trp Leu
65 70 75 80

Phe Leu Ser Leu Glu Cys Val Ser Leu Ala Ser Tyr Gly Leu Ser Leu
85 90 95

Cys Ile Pro Arg Gly Phe Glu Val Ala Leu Gly Ala His Met Trp Pro
100 105 110

Leu Trp Gly Arg Arg Cys Ala Pro Asn Arg His Tyr Gly Asn Thr Thr
115 120 125

Ser Ala Thr Tyr Ser Pro Leu Gly Val Pro Leu Leu Pro Gly Leu Cys
130 135 140

Gly Pro Gln Ala Val
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<211> 23
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Met Lys Leu Asn Asn Lys Gln Cys His Leu Tyr Met Gly Thr Met Pro
1 5 10 15

Ser Ser Ser Cys Cys Val Phe
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<210> 2994
<211> 58
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<400> 2994
Leu Gln Leu Gly Leu Cys Cys Leu Pro Val Leu Phe Val Ala Leu Gly
1 5 10 15

Met Ala Ser Asp Pro Ile Phe Thr Leu Ala Pro Pro Leu His Cys His
20 25 30

Tyr Gly Ala Phe Pro Pro Asn Ala Ser Gly Trp Glu Gln Pro Pro Asn
35 40 45

Ala Ser Gly Val Thr Ser Pro Ala Leu Pro
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<210> 2995
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<400> 2995
Met Ala Val Thr Ala Leu Ala Ala Arg Thr Trp Leu Gly Val Trp Gly
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Val Arg Thr Met Gln Ala Arg Gly Phe Gly Ser Asp Gln Ser Glu Asn
20 25 30

Val Asp Arg Gly Ala Gly Ser Ile Arg Glu Ala Gly Gly Ala Phe Gly
35 40 45

Lys Arg Glu Gln Ala Glu Glu Glu Arg Tyr Phe Arg
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<210> 2996
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<213> Homo sapiens

<400> 2996
Val Leu Ser Cys Ile Leu Ala Leu Leu Val Lys His Ser Lys Ala Ser
1 5 10 15

Thr His Pro Pro Phe Ser Pro Leu Gly Lys Ala Val Asp Cys Asn Ile
20 25 30

His Thr Ala Pro Trp Ala Met Val Lys Ser Leu Ala Glu Gly Leu Gly
35 40 45

Glu Ala Leu Cys Val
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<210> 2997
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<400> 2997
Met Cys Pro Leu Thr Thr Ala Ser Glu Ala Leu Ser Ala Ile Lys Met
1 5 10 15

Gln Ile Leu Gly Leu Ile Leu Leu Leu Leu Asn Pro Gly Ile Ser Gly
20 25 30

Gly Asn Ser
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<210> 2998

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<400> 2998
Met Arg Ser Glu Gly Gly Arg Leu Ile Lys Thr Thr Lys Asn Ile Ile
1 5 10 15

Val Val Thr Leu Leu Phe Phe Phe Phe Cys Gly Gly Gly Asp Ser Thr
20 25 30

Ile Ile Lys Ile Gln Thr
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<210> 2999
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<400> 2999
Met Arg Ser Glu Gly Gly Arg Leu Ile Lys Thr Thr Lys Asn Ile Ile
1 5 10 15

Val Val Thr Leu Leu Phe Phe Phe Phe Cys Gly Gly Gly Asp Ser Thr
20 25 30

Ile Ile Lys Ile Gln Thr
35

<210> 3000
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<213> Homo sapiens

<400> 3000
Met Tyr Leu Asp Gln Ser Ser Leu Val Phe Leu Thr Leu Ala Met Ser
1 5 10 15

His Cys His Leu Met Gly Pro Ile Trp Val Leu
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<210> 3001
<211> 32
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<400> 3001
Met Thr Gly Arg Gln Ser Leu Arg Pro Gly Cys Ala Leu Leu Leu Leu
1 5 10 15

Pro Ser Val Phe Ser Gln Leu Leu Ser Leu Gly Ala Pro Gly Ser Glu
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<210> 3002
<211> 59
<212> PRT
<213> Homo sapiens

<400> 3002
Met Leu Val Thr Met Ala Pro Ile Val Leu Ile Leu Leu Gly Leu Leu
1 5 10 15

Leu Phe Lys Met Tyr Pro Ile Asp Glu Glu Arg Arg Arg Gln Asn Lys
20 25 30

Lys Ala Leu Gln Ala Leu Arg Asp Glu Ala Ser Ser Ser Gly Cys Ser
35 40 45

Glu Thr Asp Ser Thr Glu Leu Ala Ser Ile Leu
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<210> 3003
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<212> PRT
<213> Homo sapiens

<400> 3003
Met Val Leu Leu Arg Val Leu Ala Ser His Leu His His Phe Tyr Phe
1 5 10 15

Ser Phe Thr Ile Cys Ile Phe Gln Ser Ala Tyr Ile Leu Thr Leu Leu
20 25 30

Leu Val Val Leu Met Thr Ser Asp
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<210> 3004
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<400> 3004
Trp Asn
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<400> 3005
Met Thr Leu Ala Phe Val Thr Leu Val Arg Val Ile Ser Thr Ile Ile
1 5 10 15

Gly Gly Met Ala Asp Gln Gly Glu Val Lys Ser Gln

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<400> 3006
Met Cys Arg Trp Phe Val Ser Glu
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<210> 3007
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<400> 3007
Met Phe Ser Gln Leu Leu Leu Tyr Cys Val Tyr Leu Tyr Cys Cys Arg
1 5 10 15

Gly Gly Cys Phe
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<210> 3008
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<212> PRT
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<400> 3008
Met Glu Leu Lys Lys Asn Val Phe Ser Val Ser Ser Leu Cys Thr Pro
1 5 10 15

Ser His Tyr Ser Ser His Thr Leu His Phe Phe Phe Phe Phe Lys Ala
20 25 30

Ala Leu Ile Gly Cys Tyr Ile Leu
35 40

<210> 3009
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<223> Xaa equals any of the naturally occurring L-amino acids

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Met Xaa Ser Tyr
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<210> 3010
<211> 38
<212> PRT
<213> Homo sapiens

<400> 3010
Met Val Ala Arg Cys Phe Leu Thr Phe Leu Arg Val Asn Ser Leu Ser
1 5 10 15

Gln Gly Thr Val Glu Met Gly Val Trp Ser Gly Phe Pro Pro Gln Ser
20 25 30

Leu Leu Ile Thr Ala Gln
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<210> 3011
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<212> PRT
<213> Homo sapiens

<400> 3011
Ile
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<210> 3012
<211> 65
<212> PRT
<213> Homo sapiens

<400> 3012
Met Arg Phe Phe Leu Phe Pro Tyr Tyr Cys Phe Ile Leu Ser Cys His
1 5 10 15

Ser Lys Leu Thr Phe Phe Gly Met Phe Phe Leu Tyr Leu Cys Pro Phe
20 25 30

Arg Ser Ala Leu Asp Ser Leu Gly Gly Leu Leu Gln Trp Val Cys Leu
35 40 45

Asn Ile Val Ile Pro His Val Ala Asp Trp Glu Thr Leu Leu Phe Asn
50 55 60

Trp
65

<210> 3013
<211> 40
<212> PRT
<213> Homo sapiens

<400> 3013
Met Leu Ser Leu Ser Ser Leu Ser Arg Cys Lys Leu Tyr Val Tyr Trp
1 5 10 15

Leu Cys Ser Leu Ile Leu Phe His Gly Lys Tyr Lys Gln Phe Ser Ala
20 25 30

Tyr Lys Tyr Trp Lys Lys Leu Ser
35 40

<210> 3014
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<212> PRT
<213> Homo sapiens

<400> 3014
Met Phe Val Asp Val Ser Trp Phe Leu Val Phe Thr Leu Leu Pro
1 5 10 15

<210> 3015
<211> 39
<212> PRT
<213> Homo sapiens

<400> 3015
Met Ser His Phe Ser Cys Val Ile Leu Ile Leu Thr Gly Ile Arg Trp
1 5 10 15

His Gly Leu Val Phe Ser Gln Phe Gln Asn Ile Phe Leu His Cys Phe
20 25 30

Asn Val Lys Lys Met Lys Ile
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<210> 3016
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<212> PRT
<213> Homo sapiens

<400> 3016
Leu Leu Gly
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<210> 3017
<211> 36
<212> PRT
<213> Homo sapiens

<400> 3017
Met Lys Leu Phe Leu Pro Arg Pro Leu Ser Ala Ala Arg Val Arg Gly
1 5 10 15

Leu Leu Phe Cys Ile Phe Ile Ala Leu Arg His Leu Val Leu Cys Asp
20 25 30

Tyr His Thr Tyr
35

Page 1621 of 2636

<210> 3018
<211> 295
<212> PRT
<213> Homo sapiens

<400> 3018

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Met Ala Ser Ile Ala Lys Gln Thr Ser Ser Leu Val Pro Pro Tyr Leu
  1               5                  10                  15

Gly Met Ile Leu Thr Ala Leu Leu Gln Gly Leu Ala Gly Arg Thr Trp
             20                  25                  30

Ala Gly Lys Glu Glu Leu Leu Lys Ala Ile Ala Cys Val Val Thr Ala
         35                  40                  45

Cys Ser Ala Glu Leu Glu Lys Ser Val Pro Asn Gln Pro Ser Thr Asn
     50                  55                  60

Glu Ile Leu Gln Ala Val Leu Lys Glu Cys Ser Lys Glu Asn Val Lys
 65                  70                  75                  80

Tyr Lys Ile Val Ala Ile Ser Cys Ala Ala Asp Ile Leu Lys Ala Thr
                 85                  90                  95

Lys Glu Asp Arg Phe Gln Glu Phe Ser Asn Ile Val Ile Pro Leu Ile
            100                 105                 110

Lys Lys Asn Ser Leu Glu Ser Ser Gly Val Arg Thr Thr Lys Asn Glu
        115                 120                 125

Glu Glu Asn Glu Lys Glu Lys Glu Leu Gln Leu Glu Tyr Leu Leu Gly
    130                 135                 140

Ala Phe Glu Ser Leu Gly Lys Ala Trp Pro Arg Asn Ala Glu Thr Gln
145                 150                 155                 160

Arg Cys Tyr Arg Gln Glu Leu Cys Lys Leu Met Cys Glu Arg Leu Lys
                165                 170                 175

Leu Ser Thr Trp Lys Val Gln Leu Gly Val Leu Gln Ser Met Asn Ala
            180                 185                 190

Phe Phe Gln Gly Leu Met Leu Leu Glu Glu Glu His Ala Asp Pro Glu
        195                 200                 205

Ala Leu Ala Glu Ile Leu Leu Glu Thr Cys Lys Ser Ile Thr Tyr Ser
    210                 215                 220

Leu Glu Asn Lys Thr Tyr Ser Ser Val Arg Thr Glu Ala Leu Ser Val
225                 230                 235                 240

Ile Glu Leu Leu Leu Lys Lys Leu Glu Glu Ser Lys Gln Trp Glu Cys
                245                 250                 255

Leu Thr Ser Glu Cys Arg Val Leu Leu Ile Glu Ser Leu Ala Thr Met
            260                 265                 270

Glu Pro Asp Ser Arg Pro Glu Leu Gln Glu Lys Ala Ala Leu Leu Lys
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275 280 285

Lys Thr Leu Glu Asn Leu Glu
290 295

<210> 3019
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<400> 3019
Met Gln Pro Pro Ile Ser Ser Tyr Ser Phe Leu Val Phe Trp Leu Thr
1 5 10 15

Val Gln Pro Cys Gly Phe Cys Ala Ala Ser Ser Ala Arg Lys Ile Lys
20 25 30

Pro Ser Phe Ser
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<210> 3020
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<212> PRT
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<400> 3020
Met Leu Leu Leu Ser Thr Leu Tyr Leu Pro Ser Ala Leu Ser Arg Lys
1 5 10 15

Thr Phe Val Leu Leu Lys Thr Lys Asp Val Phe Ile Leu Asp Pro Glu
20 25 30

Glu Arg Ser Leu Leu
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<210> 3021
<211> 34
<212> PRT
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<400> 3021
Met Gly Gln Gly Ser His Leu Met Leu Val Phe Leu Ile Leu Tyr Tyr
1 5 10 15

Ile Val Leu Phe Met Ile Gln Leu Ile Leu Thr Lys Phe Val Ala Val
20 25 30

Glu Pro

<210> 3022
<211> 34
<212> PRT

<213> Homo sapiens

<400> 3022
Met Val Phe Thr Cys Pro His Gln Lys Pro Ala Leu Ser Arg Leu Leu
1 5 10 15

Arg Leu Leu Leu Leu Asn Arg Ser Ala Ile Cys Ile Pro Gly Ala Pro
20 25 30

Gln Gly

<210> 3023
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<212> PRT
<213> Homo sapiens

<400> 3023
Ser Trp Leu Pro Pro Ile
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<210> 3024
<211> 16
<212> PRT
<213> Homo sapiens

<400> 3024
Val Ile Ile Ser Ser Val Phe Ser Phe Val Leu Leu Ser Cys Ile His
1 5 10 15

<210> 3025
<211> 319
<212> PRT
<213> Homo sapiens

<400> 3025
Met Gln Thr Cys Pro Leu Ala Phe Pro Gly His Val Ser Gln Ala Leu
1 5 10 15

Gly Thr Leu Leu Phe Leu Ala Ala Ser Leu Ser Ala Gln Asn Glu Gly
20 25 30

Trp Asp Ser Pro Ile Cys Thr Glu Gly Val Val Ser Val Ser Trp Gly
35 40 45

Glu Asn Thr Val Met Ser Cys Asn Ile Ser Asn Ala Phe Ser His Val
50 55 60

Asn Ile Lys Leu Arg Ala His Gly Gln Glu Ser Ala Ile Phe Asn Glu
65 70 75 80

Val Ala Pro Gly Ser Gly Arg Arg Gly Thr Ala Gly Asp Gln Arg Arg

85 90 95

Pro Gly Leu Arg Ala Gly Ala Gln Gln Gly Leu Ser Arg Ala Ser Ala
100 105 110

Glu Leu Trp Thr Pro Asp Ser Glu Pro Thr Pro Arg Pro Leu Ala Leu
115 120 125

Val Phe Lys Pro Ser Pro Leu Gly Ala Leu Glu Leu Leu Ser Pro Gln
130 135 140

Pro Leu Phe His Met Pro Gln Thr His Ser Arg Leu Gln Gly Arg Glu
145 150 155 160

Asp Thr Gly Glu Pro Ala Leu Ser Ala Asp Leu Gly Trp Arg Gly Leu
165 170 175

Gly Leu Ser Ser His Pro Glu Gly Thr Asp Thr Gly Leu Leu Gly Arg
180 185 190

Leu Gly Leu Cys Val Thr His Ser Trp Val Arg Ala Asp Pro Ser Pro
195 200 205

Pro Pro Pro Arg Ser Ser Lys Leu Cys Phe Leu Ser Phe Gln Asn Gly
210 215 220

Thr Thr Ser Pro Pro Gln His Pro Thr Tyr Gln Asp Ala Cys Pro Ser
225 230 235 240

Leu Cys Pro His Gln Thr His Arg Pro Gly Leu Pro Phe Cys His Pro
245 250 255

Arg Leu Val Arg Pro Gln Val Trp Gly Pro Leu Ser Pro Leu Pro Gly
260 265 270

Leu Arg Ala Gln Val Arg Gly Pro Leu Pro Glu Pro Gln Thr His Ser
275 280 285

Ser Ser Gly Leu Trp Gly Ala Leu Ala Thr Tyr Leu Ser Leu Gly Tyr
290 295 300

Glu Gln Ala Leu Gly Ala Leu Pro Arg Gln Pro Arg Gly Pro Arg
305 310 315

<210> 3026
<211> 30
<212> PRT
<213> Homo sapiens

<400> 3026
Met Ser Ile Ser Val Phe Ser Leu Leu Leu Ser Phe Leu Ile Asp Gly
1 5 10 15

Ser Phe Ser Leu Leu Pro Arg Gly Cys Gln Asn Phe Ala Ser
20 25 30

<210> 3027

<211> 60
<212> PRT
<213> Homo sapiens

<400> 3027
Phe Tyr Ser Phe Phe Leu Pro His Lys Gly Leu Val Leu Phe Asn Tyr
1 5 10 15

Thr Gly Ala Ser Ser Ser Phe Leu Phe Pro Ser Ser Glu Leu Pro Ala
20 25 30

Glu Ile Leu Pro Gln Leu Ile Asp Lys Lys Ile Leu Ile Pro Arg Ser
35 40 45

Glu Phe Arg Asn Ile Leu Ile Asn Glu Ser Ser Cys
50 55 60

<210> 3028
<211> 49
<212> PRT
<213> Homo sapiens

<400> 3028
Met Ser Leu Thr Gln Glu Pro Arg Gly Arg Gln Arg Arg Thr Lys Val
1 5 10 15

Ile Asn Leu His Leu Phe Leu Phe Leu Phe Phe Phe Phe Phe Ser Ser
20 25 30

Val Val Thr Ser Phe Pro Leu Ser Phe Phe Ile Leu Pro Gly Pro Leu
35 40 45

Pro

<210> 3029
<211> 8
<212> PRT
<213> Homo sapiens

<400> 3029
Met Thr Thr Trp Pro Thr Cys Ser
1 5

<210> 3030
<211> 158
<212> PRT
<213> Homo sapiens

<400> 3030
Met Gly Ser Gln Ala Leu Pro Pro Gly Pro Met Gln Thr Leu Ile Phe
1 5 10 15

Phe Asp Met Glu Ala Thr Gly Leu Pro Phe Ser Gln Pro Lys Val Thr
20 25 30

Glu Leu Cys Leu Leu Ala Val His Arg Cys Ala Leu Glu Ser Pro Pro
35 40 45

Thr Ser Gln Gly Pro Pro Pro Thr Val Pro Pro Pro Pro Arg Val Val
50 55 60

Asp Lys Leu Ser Leu Cys Val Ala Pro Gly Lys Ala Cys Ser Pro Ala
65 70 75 80

Ala Ser Glu Ile Thr Gly Leu Ser Thr Ala Val Leu Ala Ala His Gly
85 90 95

Arg Gln Cys Phe Asp Asp Asn Leu Ala Asn Leu Leu Leu Ala Phe Leu
100 105 110

Arg Arg Gln His Ser Pro Gly Ala Trp Trp His Thr Met Val Thr Ala
115 120 125

Thr Thr Ser Pro Cys Ser Lys Gln Ser Trp Leu Cys Trp Ala Ser Pro
130 135 140

Val Leu Trp Met Val Pro Ser Val Trp Ile Ala Ser Leu Arg
145 150 155

<210> 3031
<211> 42
<212> PRT
<213> Homo sapiens

<400> 3031
Met Ala Val Ala Ala Trp Val Met Ser Val Ser Leu His Leu Gly Phe
1 5 10 15

Pro Trp Ala Leu Ser Arg Gln Arg His Pro Gln Ser His His His Cys
20 25 30

Glu Ser Phe Gly Ser Phe Ser Ile Trp Ala
35 40

<210> 3032
<211> 22
<212> PRT
<213> Homo sapiens

<400> 3032
Leu Ala Val Leu Leu Pro Gln Arg Val Leu Leu Ser Val Phe Leu Cys
1 5 10 15

Leu Leu Pro Leu Gln Arg
20

<210> 3033
<211> 94
<212> PRT

<213> Homo sapiens

<400> 3033
Met Arg Gln Glu Asp Leu Thr Gly Leu Cys Lys Leu Val Asn Ile Leu
1 5 10 15

Phe Phe Phe Leu Gln Phe Tyr Thr Leu Leu Ser Phe Phe Phe Leu Leu
20 25 30

Lys Asn Val His Lys Leu Phe Val Ala Ala Val Ile Ile Phe Val Val
35 40 45

Lys Ser Gln Arg Cys Cys Val Ala Gly Ser Ala Ser Gly Leu Gly Leu
50 55 60

Arg Leu His Gly Ser Asn Tyr Thr Val Val Tyr Gly Asp Gln Ser Arg
65 70 75 80

Pro Pro Leu Leu Arg Val Lys Thr Gly Val Lys Gly Lys Ala
85 90

<210> 3034
<211> 32
<212> PRT
<213> Homo sapiens

<400> 3034
Met Pro Ile Lys Ile Tyr Phe Leu Leu Val Ile Ser Thr Leu Phe Leu
1 5 10 15

Ile Leu Thr Phe Ile Thr Gly Asn Val Pro Val His Val Gly Ser Arg
20 25 30

<210> 3035
<211> 28
<212> PRT
<213> Homo sapiens

<400> 3035
Met Asp Phe Leu Leu Phe Leu Ser Gly Ser Ser Ser Phe Leu Ser Leu
1 5 10 15

Phe Leu Phe Ile Tyr Leu Phe Ile Tyr Phe Ala Val
20 25

<210> 3036
<211> 49
<212> PRT
<213> Homo sapiens

<400> 3036
Met Gly Ala Leu Cys Val His Cys Cys Ile Leu Ala Phe Cys Thr Tyr

1 5 10 15

Gly Ser Gly Ile Ser Leu Phe Pro Tyr Leu Leu Ile Cys Leu Arg Gly
20 25 30

Arg Asn Ile His Tyr Ala Met Thr Ile Pro Val Leu Val Asn Val Pro
35 40 45

Val

<210> 3037
<211> 31
<212> PRT
<213> Homo sapiens

<400> 3037
Met Tyr Lys Glu Ile Pro Val Lys Leu Phe Cys Leu Met Phe Tyr Trp
1 5 10 15

Thr Lys Val Val Val Cys Met Glu Cys Ser Ser Ser Val Tyr Arg
20 25 30

<210> 3038
<211> 25
<212> PRT
<213> Homo sapiens

<400> 3038
Arg Lys Trp Trp Pro Gln Asp Ile His Leu Thr Val Ala Val Ala Thr
1 5 10 15

Leu Trp Ser Ser Ser Gly His Gln Trp
20 25

<210> 3039
<211> 46
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3039
Met Asn Val Thr Val Thr Leu Pro Lys Tyr His Leu Ala Leu Ile Trp
1 5 10 15

Leu Leu Phe His Phe Gly Trp Ala Leu Leu Ser Val Cys Ser Lys Thr
20 25 30

Val Leu Met Xaa Leu Ser Asn Val His Asn Ala Val Ile Gly
35 40 45

<210> 3040
<211> 49
<212> PRT
<213> Homo sapiens

<400> 3040
Met Val Leu Val Thr Trp Pro Leu Phe Thr Ala Pro Phe Ala Ser Thr
1 5 10 15

Ser Cys Cys Ala Gly Leu Glu Val Ala Thr Met Ala Cys Phe Lys Glu
20 25 30

Gly Asn Ser Gly Thr Val Ala Pro Ser Gly Val Glu Asp Ser Glu Leu
35 40 45

Pro

<210> 3041
<211> 34
<212> PRT
<213> Homo sapiens

<400> 3041
Met Cys Val Thr Phe Leu Ser Ala Cys Cys Ile Tyr Ala Phe Tyr Leu
1 5 10 15

Leu Leu Phe Ser Leu Phe Ile Gln Val Thr Lys Arg Met Leu Glu Gln
20 25 30

Ala Trp

<210> 3042
<211> 31
<212> PRT
<213> Homo sapiens

<400> 3042
Met Lys Pro His Leu His Leu Pro Leu Leu Phe Leu Pro Thr Leu Ser
1 5 10 15

Asn Ile Thr Phe Thr Leu Asn Phe Ser Val Tyr Arg Lys Glu Asn
20 25 30

<210> 3043
<211> 32
<212> PRT
<213> Homo sapiens

<400> 3043
Met Ile Gln His Val Val Phe Cys Val Trp Leu Leu Ser Phe Ser Ile
1 5 10 15

```
Phe Lys Leu His Leu Ser Ser Ser Leu Cys Arg Tyr Cys Ile Ala Gly
            20                  25                  30
```

<210> 3044
<211> 216
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (101)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3044

```
Met Glu Met Arg Ser Val Leu Arg Lys Ala Gly Ser Pro Arg Lys Ala
  1               5                  10                  15

Arg Arg Ala Arg Leu Asn Pro Leu Val Leu Leu Leu Asp Ala Ala Leu
            20                  25                  30

Thr Gly Glu Leu Glu Val Val Gln Gln Ala Val Lys Glu Met Asn Asp
        35                  40                  45

Pro Ser Gln Pro Asn Glu Glu Gly Ile Thr Ala Leu His Asn Ala Ile
    50                  55                  60

Cys Gly Ala Asn Tyr Ser Ile Val Asp Phe Leu Ile Thr Ala Gly Ala
65                  70                  75                  80

Asn Val Asn Ser Pro Asp Ser His Gly Trp Thr Pro Leu His Cys Ala
                85                  90                  95

Ala Ser Cys Asn Xaa Thr Val Ile Cys Met Ala Leu Val Gln His Gly
            100                 105                 110

Ala Ala Ile Phe Ala Thr Thr Leu Ser Asp Gly Ala Thr Ala Phe Glu
        115                 120                 125

Lys Cys Asp Pro Tyr Arg Glu Gly Tyr Ala Asp Cys Ala Thr Tyr Leu
    130                 135                 140

Ala Asp Val Glu Gln Ser Met Gly Leu Met Asn Ser Gly Ala Val Tyr
145                 150                 155                 160

Ala Leu Trp Asp Tyr Ser Ala Glu Phe Gly Asp Glu Leu Ser Phe Arg
                165                 170                 175

Glu Gly Glu Ser Val Thr Val Leu Arg Arg Asp Gly Pro Glu Arg Pro
            180                 185                 190

Thr Gly Gly Gly Pro Arg Cys Thr Ala Arg Arg Ala Thr Cys Arg Gly
        195                 200                 205

Thr Thr Ser Gly Cys Ser Pro Gly
    210                 215
```

<210> 3045
<211> 36
<212> PRT
<213> Homo sapiens

<400> 3045
Met Leu Leu Trp Leu Trp Ser Gly Pro Gly Met Ala Val Gly Pro Cys
1 5 10 15

Arg Gly Val Ala Leu Leu Ala Arg Ser Gly Met Cys Ser Ala Glu Ala
20 25 30

Val Asn Ser Trp
35

<210> 3046
<211> 59
<212> PRT
<213> Homo sapiens

<400> 3046
Met Cys Val Cys Val Tyr Val Cys Ala Cys Leu Cys Pro Arg Pro Cys
1 5 10 15

Val Pro His Thr Ala Pro Leu Ser Ser Val Leu Pro Arg Asp Pro Ser
20 25 30

Glu Leu Ala Cys Gly Ala Arg Glu Ala Pro Trp Met Gly Gly Gly Ala
35 40 45

Thr Gly Arg Leu Glu Gly Leu His Gln Ala His
50 55

<210> 3047
<211> 55
<212> PRT
<213> Homo sapiens

<400> 3047
Met Glu Phe Phe Pro Arg Gly Gln Leu Leu Leu Leu Ser Phe Ile Met
1 5 10 15

Ile Leu Thr Phe Trp Val Lys Gln Gly Gly Trp Glu Arg Trp Ser Asp
20 25 30

Val Lys Tyr Asn Leu Leu Gly Gly Thr Val Asn Cys Glu Val Val Arg
35 40 45

Lys Lys Ile Lys Thr Ser Tyr
50 55

<210> 3048

<211> 347
<212> PRT
<213> Homo sapiens

<400> 3048
Met Phe Tyr Cys Thr Arg Thr Leu Pro Asn Val Leu Ala Leu Pro Val
1 5 10 15

Val Leu Leu Ala Leu Ala Ala Trp Leu Arg His Glu Trp Ala Arg Phe
20 25 30

Ile Trp Leu Ser Ala Phe Ala Ile Ile Val Phe Arg Val Glu Leu Cys
35 40 45

Leu Phe Leu Gly Leu Leu Leu Leu Leu Ala Leu Gly Asn Arg Lys Val
50 55 60

Ser Val Val Arg Ala Leu Arg His Ala Val Pro Ala Gly Ile Leu Cys
65 70 75 80

Leu Gly Leu Thr Val Ala Val Asp Ser Tyr Phe Trp Arg Gln Leu Thr
85 90 95

Trp Pro Glu Gly Lys Val Leu Trp Tyr Asn Thr Val Leu Asn Lys Ser
100 105 110

Ser Asn Trp Gly Thr Ser Pro Leu Leu Trp Tyr Phe Tyr Ser Ala Leu
115 120 125

Pro Arg Gly Leu Gly Cys Ser Leu Leu Phe Ile Pro Leu Gly Leu Val
130 135 140

Asp Arg Arg Thr His Ala Pro Thr Val Leu Ala Leu Gly Phe Met Ala
145 150 155 160

Leu Tyr Ser Leu Leu Pro His Lys Glu Leu Arg Phe Ile Ile Tyr Ala
165 170 175

Phe Pro Met Leu Asn Ile Thr Ala Ala Arg Gly Cys Ser Tyr Leu Leu
180 185 190

Asn Asn Tyr Lys Lys Ser Trp Leu Tyr Lys Ala Gly Ser Leu Leu Val
195 200 205

Ile Gly His Leu Val Val Asn Ala Ala Tyr Ser Ala Thr Ala Leu Tyr
210 215 220

Val Ser His Phe Asn Tyr Pro Gly Gly Val Ala Met Gln Arg Leu His
225 230 235 240

Gln Leu Val Pro Pro Gln Thr Asp Val Leu Leu His Ile Asp Val Ala
245 250 255

Ala Ala Gln Thr Gly Val Ser Arg Phe Leu Gln Val Asn Ser Ala Trp
260 265 270

Arg Tyr Asp Lys Arg Glu Asp Val Gln Pro Gly Thr Gly Met Leu Ala
275 280 285

Tyr Thr His Ile Ser Trp Arg Arg Pro Trp Ala Pro Gly Pro Leu Gln
290 295 300

Gly His Thr Pro Gly Pro Gly Gln Arg Arg Gly Asp His Arg Cys Glu
305 310 315 320

Ser Glu Pro Asp Pro Thr Ala Pro Phe Asn Val His Leu Gln Thr Lys
325 330 335

Leu Val Leu Leu Glu Arg Leu Pro Arg Pro Ser
340 345

<210> 3049
<211> 28
<212> PRT
<213> Homo sapiens

<400> 3049
Pro Phe Ala Leu Ser Leu Gln Arg Val Pro Phe Val Leu Pro Ser Pro
1 5 10 15

Gln Val Ala Ser Leu Pro Leu Gly His Ser Arg Gly
20 25

<210> 3050
<211> 410
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (83)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3050
Met Ala Asp Ser Ser Gly Arg Gly Ala Gly Lys Pro Ala Thr Gly Pro
1 5 10 15

Thr Asn Ser Ser Ser Ala Lys Lys Lys Asp Lys Arg Val Gln Gly Gly
20 25 30

Arg Val Ile Glu Ser Arg Tyr Leu Gln Tyr Glu Lys Lys Thr Thr Gln
35 40 45

Lys Ala Pro Ala Gly Asp Gly Ser Gln Thr Arg Gly Lys Met Ser Glu
50 55 60

Gly Gly Arg Lys Ser Ser Leu Leu Gln Lys Ser Lys Ala Asp Ser Ser
65 70 75 80

Gly Val Xaa Lys Gly Asp Leu Gln Ser Thr Leu Leu Glu Gly His Gly
85 90 95

Thr Ala Pro Pro Asp Leu Asp Leu Ser Ala Ile Asn Asp Lys Ser Ile
100 105 110

Val Lys Lys Thr Pro Gln Leu Ala Lys Thr Ile Ser Lys Lys Pro Glu
115 120 125

Ser Thr Ser Phe Ser Ala Pro Arg Lys Lys Ser Pro Asp Leu Ser Glu
130 135 140

Ala Met Glu Met Met Glu Ser Gln Thr Leu Leu Leu Thr Leu Leu Ser
145 150 155 160

Val Lys Met Glu Asn Asn Leu Ala Glu Phe Glu Arg Arg Ala Glu Lys
165 170 175

Asn Leu Leu Ile Met Cys Lys Glu Lys Glu Lys Leu Gln Lys Lys Ala
180 185 190

His Glu Leu Lys Arg Arg Leu Leu Leu Ser Gln Arg Lys Arg Glu Leu
195 200 205

Ala Asp Val Leu Asp Ala Gln Ile Glu Met Leu Ser Pro Phe Glu Ala
210 215 220

Val Ala Thr Arg Phe Lys Glu Gln Tyr Arg Thr Phe Ala Thr Ala Leu
225 230 235 240

Asp Thr Thr Arg His Glu Leu Pro Val Arg Ser Ile His Leu Glu Gly
245 250 255

Asp Gly Gln Gln Leu Leu Asp Ala Leu Gln His Glu Leu Val Thr Thr
260 265 270

Gln Arg Leu Leu Gly Glu Leu Asp Val Gly Asp Ser Glu Glu Asn Val
275 280 285

Gln Val Leu Asp Leu Leu Ser Glu Leu Lys Asp Val Thr Ala Lys Lys
290 295 300

Asp Leu Glu Leu Arg Arg Ser Phe Ala Gln Val Leu Glu Leu Ser Ala
305 310 315 320

Glu Ala Ser Lys Glu Ala Ala Leu Ala Asn Gln Glu Val Trp Glu Glu
325 330 335

Thr Gln Gly Met Ala Pro Pro Ser Arg Trp Tyr Phe Asn Gln Asp Ser
340 345 350

Ala Cys Arg Glu Ser Gly Gly Ala Pro Lys Asn Thr Pro Leu Ser Glu
355 360 365

Asp Asp Asn Pro Gly Ala Ser Ser Ala Pro Ala Gln Ala Thr Phe Ile
370 375 380

Ser Pro Ser Glu Asp Phe Ser Ser Ser Ser Gln Ala Glu Val Pro Pro
385 390 395 400

Ser Leu Ser Arg Ser Gly Arg Asp Leu Ser
405 410

<210> 3051
<211> 66
<212> PRT
<213> Homo sapiens

<400> 3051
Met Phe Cys Trp Cys Gly Leu Cys Thr Ser Gly Met Val Thr Thr Gly
1 5 10 15

Gly Ser Pro Gln Lys His Ser Phe Phe Tyr Thr Ser Ser Gln Gly His
20 25 30

Val Ser Cys Pro Ser Leu Pro Gly Cys Gly Gln Lys Val Ile Cys Ser
35 40 45

Trp Pro Ser Gly Gly Gly Gly Gly Pro Glu Ser Glu Glu Met Ala Gln
50 55 60

Gly Gln
65

<210> 3052
<211> 66
<212> PRT
<213> Homo sapiens

<400> 3052
Met Phe Cys Trp Cys Gly Leu Cys Thr Ser Gly Met Val Thr Thr Gly
1 5 10 15

Gly Ser Pro Gln Lys His Ser Phe Phe Tyr Thr Ser Ser Gln Gly His
20 25 30

Val Ser Cys Pro Ser Leu Pro Gly Cys Gly Gln Lys Val Ile Cys Ser
35 40 45

Trp Pro Ser Gly Gly Gly Gly Gly Pro Glu Ser Glu Glu Met Ala Gln
50 55 60

Gly Gln
65

<210> 3053
<211> 29
<212> PRT
<213> Homo sapiens

<400> 3053
Gly Phe Leu Gly Ile Leu Tyr Leu Thr Ile Phe Ile Leu Tyr Gln Thr
1 5 10 15

His Leu Gln Phe Leu Gly Leu Leu Val Lys Thr Phe Phe
20 25

<210> 3054
<211> 83
<212> PRT
<213> Homo sapiens

<400> 3054

```
Pro Pro Asp Ser Arg Lys Val Leu Arg Leu Asn Gly Val Ser Ser Val
 1               5                  10                  15

Tyr Ala Ala Leu Ala Leu His Leu Arg Val Pro Gly Arg His Leu Ser
            20                  25                  30

Leu Gly Phe Ile Phe His Gly Asp Met Thr Cys Trp Leu Lys His Tyr
        35                  40                  45

Ser Val Leu Phe Leu Val Gly Thr Gly Thr Glu Leu Glu Leu Phe Trp
    50                  55                  60

Ser Val Pro Ser Tyr Leu Lys Met Leu Cys Cys Thr Ile Ile Leu Lys
65                  70                  75                  80

Asn Tyr Lys
```

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<210> 3055
<211> 61
<212> PRT
<213> Homo sapiens

<400> 3055
```
Met Pro Pro Asn Ala Leu Leu Leu Ser Ser Val Leu Asn Phe Phe Leu
 1               5                  10                  15

Leu Thr Ser Phe Val Cys Asn Val Lys Arg Val Glu Lys His His Ser
            20                  25                  30

Ser Gln Met Tyr Ser Phe Cys Met Lys Lys Thr Glu Ile Tyr Ile Ala
        35                  40                  45

Gly Ser Gly Ile Cys Pro Val Ser Tyr Ser Trp Leu Val
    50                  55                  60
```

<210> 3056
<211> 36
<212> PRT
<213> Homo sapiens

<400> 3056
```
Cys Val Cys Val Phe Ile Cys Phe Leu Pro Ser Gln Phe Phe Ser Pro
 1               5                  10                  15

Leu Pro Thr Thr Thr Met Thr Pro Ser Arg Glu Thr Ile Asn Val Pro
            20                  25                  30

Ile Met Phe Val
        35
```

<210> 3057
<211> 61
<212> PRT
<213> Homo sapiens

<400> 3057
Met Thr Ile Met Phe Pro Gln Leu Phe Tyr Phe Pro Thr Ser Phe Ala
1 5 10 15

Val Leu Ser Val Ala Gly Arg Arg Lys Cys Cys Trp Leu Ala Gln Lys
20 25 30

Lys Leu Leu Leu Leu Arg Leu Leu Leu Leu Ser Ala Ile Ser Val Thr
35 40 45

Ile Glu Thr Gly Ala Val Tyr Ala Arg Gly Ala Gly Ser
50 55 60

<210> 3058
<211> 7
<212> PRT
<213> Homo sapiens

<400> 3058
Met Gly Cys Ile Ile Ala Thr
1 5

<210> 3059
<211> 11
<212> PRT
<213> Homo sapiens

<400> 3059
Met Phe Ser Pro His Met Tyr Ile Cys His Met
1 5 10

<210> 3060
<211> 16
<212> PRT
<213> Homo sapiens

<400> 3060
Met Arg Met Cys Val Cys Thr Ser Leu Ser Leu Cys Gly Met Cys Val
1 5 10 15

<210> 3061
<211> 47
<212> PRT
<213> Homo sapiens

<400> 3061
Met Ser Ser Arg Pro Val Leu Trp Leu Met Leu Leu Val Gly Trp Met
1 5 10 15

Trp Ile Lys Lys Leu Cys Asn Thr Gly Gly Thr Gln Met Cys Leu Gly
20 25 30

Leu Gly Thr Ala Pro Thr Phe Leu Arg Gln Arg Pro Leu Leu Gln
35 40 45

<210> 3062
<211> 31
<212> PRT
<213> Homo sapiens

<400> 3062
Met Thr Ser Ala Phe Leu Ile His Leu Thr Leu Val Leu Val Pro Thr
1 5 10 15

Val Asn Lys Thr Gln Thr Leu Gly Ser Lys Ile Ser Cys Ser Arg
20 25 30

<210> 3063
<211> 8
<212> PRT
<213> Homo sapiens

<400> 3063
Ser Trp Leu Lys Lys Leu Tyr Phe
1 5

<210> 3064
<211> 42
<212> PRT
<213> Homo sapiens

<400> 3064
Met Glu Val Leu Gln Ser Val Leu Leu Leu Leu Leu Phe Ser Ser Leu
1 5 10 15

Ile Ser Ser Val Phe Leu Ile Ser Val Val Ile Ser Gly Gln Leu Met
20 25 30

Ala Ala Gln Gly Thr Gly Ile Cys Leu Ala
35 40

<210> 3065
<211> 19
<212> PRT
<213> Homo sapiens

<400> 3065
Met Phe Thr Leu Leu Phe Phe Leu Val Thr Tyr Ile Leu Ile Thr Gly
1 5 10 15

Met Leu Lys

<210> 3066
<211> 39
<212> PRT
<213> Homo sapiens

<400> 3066
Met Leu Gln Leu Phe Leu Ala Ser Phe Ile Val Leu Leu Gln Ile Leu
1 5 10 15

Ile Pro Phe Val Leu Val Met Cys Ala Phe Glu Ala Val Gln Leu Thr
20 25 30

Thr Gln Leu Ser Ser Lys Arg
35

<210> 3067
<211> 305
<212> PRT
<213> Homo sapiens

<400> 3067
Met Glu Ser His Val Phe Leu Lys Ala Lys Thr Arg Asp Glu Tyr Leu
1 5 10 15

Ser Leu Val Ala Arg Leu Ile Ile His Phe Arg Asp Ile His Asn Lys
20 25 30

Lys Ser Gln Ala Ser Val Ser Asp Pro Met Asn Ala Leu Gln Ser Leu
35 40 45

Thr Gly Gly Pro Ala Ala Gly Ala Ala Gly Ile Gly Met Pro Pro Arg
50 55 60

Gly Pro Gly Gln Ser Leu Gly Gly Met Gly Ser Leu Gly Ala Met Gly
65 70 75 80

Gln Pro Met Ser Leu Ser Gly Gln Pro Pro Pro Gly Thr Ser Gly Met
85 90 95

Ala Pro His Ser Met Ala Val Val Ser Thr Ala Thr Pro Gln Thr Gln
100 105 110

Leu Gln Leu Gln Gln Val Ala Leu Gln Gln Gln Gln Gln Gln Gln Gln
115 120 125

Phe Gln Gln Gln Gln Gln Ala Ala Leu Gln Gln Gln Gln Gln Gln Gln
130 135 140

Gln Gln Gln Gln Phe Gln Ala Gln Gln Ser Ala Met Gln Gln Gln Phe
145 150 155 160

Gln Ala Val Val Gln Gln Gln Gln Gln Leu Gln Gln Gln Gln Gln Gln
165 170 175

Gln Gln His Leu Ile Lys Leu His His Gln Asn Gln Gln Gln Ile Gln
180 185 190

Gln Gln Gln Gln Gln Leu Gln Arg Ile Ala Gln Leu Gln Leu Gln Gln
195 200 205

Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Ala Leu
210 215 220

Gln Ala Gln Pro Pro Ile Gln Gln Pro Pro Met Gln Gln Pro Gln Pro
225 230 235 240

Pro Pro Ser Gln Ala Leu Pro Gln Gln Leu Gln Gln Met His His Thr
245 250 255

Gln His His Gln Pro Pro Pro Gln Pro Gln Gln Pro Pro Val Ala Gln
260 265 270

Asn Gln Pro Ser Gln Leu Pro Pro Gln Ser Gln Thr Gln Pro Leu Val
275 280 285

Ser Gln Ala Gln Ala Leu Pro Gly Gln Met Leu Tyr Thr Gln Pro Pro
290 295 300

Ile
305

<210> 3068
<211> 4
<212> PRT
<213> Homo sapiens

<400> 3068
Met Val Cys Ala
1

<210> 3069
<211> 21
<212> PRT
<213> Homo sapiens

<400> 3069
Met Tyr Phe Ile Pro Leu Leu His Ile Gly Gln Ile Ala Met Cys Met
1 5 10 15

His Ile Leu Phe Ser
20

<210> 3070
<211> 21
<212> PRT
<213> Homo sapiens

<400> 3070
Met Tyr Phe Ile Pro Leu Leu His Ile Gly Gln Ile Ala Met Cys Met
1 5 10 15

His Ile Leu Phe Ser
20

<210> 3071
<211> 25
<212> PRT
<213> Homo sapiens

<400> 3071
Met Lys Gly Ala Asp Lys Ser Ser Thr Leu Ile Leu Cys Phe Leu Ser
1 5 10 15

Val Leu Pro Cys Cys His Leu His Gly
20 25

<210> 3072
<211> 25
<212> PRT
<213> Homo sapiens

<400> 3072
Met Lys Gly Ala Asp Lys Ser Ser Thr Leu Ile Leu Cys Phe Leu Ser
1 5 10 15

Val Leu Pro Cys Cys His Leu His Gly
20 25

<210> 3073
<211> 39
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3073
Met Xaa His Leu Gly Leu Trp Gly Val Ile Leu Lys Leu Val Val Pro
1 5 10 15

Gly Asn His Gly Pro Leu Ala Leu Ile Asn Pro Ser Phe Asn Gly Leu
20 25 30

Leu His Pro Asp Thr Lys Val
35

<210> 3074
<211> 9
<212> PRT
<213> Homo sapiens

<400> 3074

```
Met Glu Phe Leu Ser Leu Glu Leu Ala
  1               5
```

<210> 3075
<211> 44
<212> PRT
<213> Homo sapiens

<400> 3075
```
Met Ile Arg Leu Ser Ala Met Leu Leu Val Glu Met His Val Asn Leu
  1               5                  10                  15

Pro Ala Ser Leu Ser Val Phe Leu Asp Ser Gly Gln Leu Lys Ser Pro
             20                  25                  30

Asn Thr Phe Thr Phe Ala Thr Gln Arg Gly Ser Ser
         35                  40
```

<210> 3076
<211> 39
<212> PRT
<213> Homo sapiens

<400> 3076
```
Met Val Phe Ile Phe Leu Leu Ser Ile Leu Phe Val Ser Ala Leu Val
  1               5                  10                  15

Phe Ile Thr Ser Phe Leu Leu Leu Ala Leu Asp Leu Ala Cys Ser Ser
             20                  25                  30

Leu Phe Arg Phe Leu Val Val
         35
```

<210> 3077
<211> 46
<212> PRT
<213> Homo sapiens

<400> 3077
```
Met Asp Gly Trp His Glu Ile Leu Lys Lys Ile Leu Leu Leu Phe Gln
  1               5                  10                  15

Lys Cys His Ser Ser Pro Leu Lys Val Gln Glu Thr Trp Leu Ser Ser
             20                  25                  30

Val Val Tyr Gly Gly Ala Trp Ala Ser Glu Ser Gly Gln Arg
         35                  40                  45
```

<210> 3078
<211> 95
<212> PRT
<213> Homo sapiens

<400> 3078
Met Phe His Val Leu Met Ala Gln Val Thr Thr Val Ile Ile Thr Thr
1 5 10 15

Val Ser Val Leu Val Phe Asp Phe Arg Pro Ser Leu Glu Phe Phe Leu
20 25 30

Glu Ala Pro Ser Val Leu Leu Ser Ile Phe Ile Tyr Asn Ala Ser Lys
35 40 45

Pro Gln Val Pro Glu Tyr Ala Pro Arg Gln Glu Arg Ile Arg Asp Leu
50 55 60

Ser Gly Asn Leu Trp Glu Arg Ser Ser Gly Asp Gly Glu Glu Leu Glu
65 70 75 80

Arg Leu Thr Lys Pro Lys Ser Asp Glu Ser Asp Glu Asp Thr Phe
85 90 95

<210> 3079
<211> 194
<212> PRT
<213> Homo sapiens

<400> 3079
Met Leu Ala Ala Val Gly Arg Pro Lys Pro Arg Ser Pro Leu Ser Ser
1 5 10 15

Leu Ser Thr Leu Gln Leu Tyr Leu Phe Cys Ser Ser Thr Arg Arg Ala
20 25 30

Asp Met Asp Pro Asn Pro Arg Ala Ala Leu Glu Arg Gln Gln Leu Arg
35 40 45

Leu Arg Glu Arg Gln Lys Phe Phe Glu Asp Ile Leu Gln Pro Glu Thr
50 55 60

Glu Phe Val Phe Pro Leu Ser His Leu His Leu Glu Ser Gln Arg Pro
65 70 75 80

Pro Ile Gly Ser Ile Ser Ser Met Glu Val Asn Val Asp Thr Leu Glu
85 90 95

Gln Val Glu Leu Ile Asp Leu Gly Asp Pro Asp Ala Ala Asp Val Phe
100 105 110

Leu Pro Cys Glu Asp Pro Pro Pro Thr Pro Gln Ser Ser Gly Val Asp
115 120 125

Asn His Leu Glu Glu Leu Ser Leu Pro Val Pro Thr Ser Asp Arg Thr
130 135 140

Thr Ser Arg Thr Ser Ser Ser Ser Ser Ser Asp Ser Ser Thr Asn Leu
145 150 155 160

His Ser Pro Asn Pro Ser Asp Asp Gly Ala Asp Thr Pro Leu Ala Gln
165 170 175

Ser Asp Glu Glu Glu Glu Arg Gly Asp Gly Gly Ala Glu Pro Gly Ala

180 185 190

Cys Ser

<210> 3080
<211> 22
<212> PRT
<213> Homo sapiens

<400> 3080
Met Gly Val Arg Ser Arg Ala Trp Ala Phe Leu Thr Phe Thr Ser Thr
1 5 10 15

Leu Ala Thr Arg Ser Arg
20

<210> 3081
<211> 58
<212> PRT
<213> Homo sapiens

<400> 3081
Met Pro Gly Val Gly Trp Ala Gln Ala Leu Lys Ser Pro Phe Cys Leu
1 5 10 15

Val Val Leu His Leu Ala Leu Pro Gly Leu Trp Cys Arg Leu Gly Val
20 25 30

Asp Leu Ser Ser Val Ile Tyr Val Cys Cys Leu Ala Pro Arg Trp Leu
35 40 45

Cys Gly Gln Val Leu Ala Lys Asp Ile Ile
50 55

<210> 3082
<211> 58
<212> PRT
<213> Homo sapiens

<400> 3082
Met Pro Gly Val Gly Trp Ala Gln Ala Leu Lys Ser Pro Phe Cys Leu
1 5 10 15

Val Val Leu His Leu Ala Leu Pro Gly Leu Trp Cys Arg Leu Gly Val
20 25 30

Asp Leu Ser Ser Val Ile Tyr Val Cys Cys Leu Ala Pro Arg Trp Leu
35 40 45

Cys Gly Gln Val Leu Ala Lys Asp Ile Ile
50 55

<210> 3083
<211> 58
<212> PRT
<213> Homo sapiens

<400> 3083
Met Pro Gly Val Gly Trp Ala Gln Ala Leu Lys Ser Pro Phe Cys Leu
1 5 10 15

Val Val Leu His Leu Ala Leu Pro Gly Leu Trp Cys Arg Leu Gly Val
20 25 30

Asp Leu Ser Ser Val Ile Tyr Val Cys Cys Leu Ala Pro Arg Trp Leu
35 40 45

Cys Gly Gln Val Leu Ala Lys Asp Ile Ile
50 55

<210> 3084
<211> 443
<212> PRT
<213> Homo sapiens

<400> 3084
Met Ala His His Leu Tyr Val Leu Gln Ala Leu Met Leu Gly Leu Leu
1 5 10 15

Glu Pro Arg Met Arg Thr Pro Leu Asp Pro Tyr Ser Gln Glu Gln Arg
20 25 30

Glu Gln Leu Gln Val Leu Arg Gln Ala Ala Phe Glu Val Glu Gly Glu
35 40 45

Ser Ser Gly Ala Gly Leu Ser Ala Asp Arg Arg Arg Ser Leu Cys Ala
50 55 60

Arg Glu Phe Arg Lys Leu Gly Phe Ser Asn Ser Asn Pro Ala Gln Asp
65 70 75 80

Leu Glu Arg Val Pro Pro Gly Leu Leu Ala Leu Asp Asn Met Leu Tyr
85 90 95

Phe Ser Arg Asn Ala Pro Ser Ala Tyr Ser Arg Phe Val Leu Glu Asn
100 105 110

Ser Ser Arg Glu Asp Lys His Glu Cys Pro Phe Ala Arg Gly Ser Ile
115 120 125

Gln Leu Thr Val Leu Leu Cys Glu Leu Leu Arg Val Gly Glu Pro Cys
130 135 140

Ser Glu Thr Ala Gln Asp Phe Ser Pro Met Phe Phe Gly Gln Asp Gln
145 150 155 160

Ser Phe His Glu Leu Phe Cys Val Gly Ile Gln Leu Leu Asn Lys Thr
165 170 175

Trp Lys Glu Met Arg Ala Thr Gln Glu Asp Phe Asp Lys Val Met Gln
180 185 190

Val Val Arg Glu Gln Leu Ala Arg Thr Leu Ala Leu Lys Pro Thr Ser
195 200 205

Leu Glu Leu Phe Arg Thr Lys Val Asn Ala Leu Thr Tyr Gly Glu Val
210 215 220

Leu Arg Leu Arg Gln Thr Glu Arg Leu His Gln Glu Gly Thr Leu Ala
225 230 235 240

Pro Pro Ile Leu Glu Leu Arg Glu Lys Leu Lys Pro Glu Leu Met Gly
245 250 255

Leu Ile Arg Gln Gln Arg Leu Leu Arg Leu Cys Glu Gly Thr Leu Phe
260 265 270

Arg Lys Ile Ser Ser Arg Arg Arg Gln Asp Lys Leu Trp Phe Cys Cys
275 280 285

Leu Ser Pro Asn His Lys Leu Leu Gln Tyr Gly Asp Met Glu Glu Gly
290 295 300

Ala Ser Pro Pro Thr Leu Glu Ser Leu Pro Glu Gln Leu Pro Val Ala
305 310 315 320

Asp Met Arg Ala Leu Leu Thr Gly Lys Asp Cys Pro His Val Arg Glu
325 330 335

Lys Gly Ser Gly Lys Gln Asn Lys Asp Leu Tyr Glu Leu Ala Phe Ser
340 345 350

Ile Ser Tyr Asp Arg Gly Glu Glu Glu Ala Tyr Leu Asn Phe Ile Ala
355 360 365

Pro Ser Lys Arg Glu Phe Tyr Leu Trp Thr Asp Gly Leu Ser Ala Leu
370 375 380

Leu Gly Ser Pro Met Gly Ser Glu Gln Thr Arg Leu Asp Leu Glu Gln
385 390 395 400

Leu Leu Thr Met Glu Thr Lys Leu Arg Leu Leu Glu Leu Glu Asn Val
405 410 415

Pro Ile Pro Glu Arg Pro Pro Pro Val Pro Pro Pro Pro Thr Asn Phe
420 425 430

Asn Phe Cys Tyr Asp Cys Ser Ile Ala Glu Pro
435 440

<210> 3085
<211> 31
<212> PRT
<213> Homo sapiens

<400> 3085
Met Lys Ile Pro Leu Tyr Trp Arg Ser His Glu Met Gly Leu Ser Tyr
1 5 10 15

Thr Cys Leu Leu Trp His Ala Ile Trp Gln Gln Gly Trp Gly Gly

20 25 30

<210> 3086
<211> 31
<212> PRT
<213> Homo sapiens

<400> 3086
Met Leu Leu Pro Leu Cys Trp Ser Ser Ser Tyr Ser Ile Phe Ile Phe
1 5 10 15

Trp Ala Thr Glu Arg Asp Ser Cys Leu Glu Lys Lys Lys Lys Lys
20 25 30

<210> 3087
<211> 32
<212> PRT
<213> Homo sapiens

<400> 3087
Leu Ile Val Leu Leu Val Val Phe Leu Pro Gln Ser Ser Asp Ser Ser
1 5 10 15

Ser Ala Pro Arg Thr Gln Asp Ala Gly Ile Ala Ser Gly Pro Gly Asn
20 25 30

<210> 3088
<211> 51
<212> PRT
<213> Homo sapiens

<400> 3088
Met Pro Gly Arg Arg Pro Pro Leu Ala Met Trp Gln Pro Leu Leu Leu
1 5 10 15

Cys Leu Thr Ser Ala Phe Gln Arg Ala Pro Ile Leu Leu Ser His Lys
20 25 30

Ile Asn Leu Met Pro Ser Gly Lys Lys Lys Lys Lys Lys Lys Lys Lys
35 40 45

Lys Lys Lys
50

<210> 3089
<211> 37
<212> PRT
<213> Homo sapiens

<400> 3089

Met Pro Arg Pro Ala Cys Leu Leu Ile Phe Ile Ser Gly His Thr Leu
1 5 10 15

Leu Ala Leu Pro Val Cys Pro Ala Pro Ala His Ala Pro Pro Pro Arg
20 25 30

Ala Ala Ser Val Leu
35

<210> 3090
<211> 59
<212> PRT
<213> Homo sapiens

<400> 3090
Met Thr Arg Leu Leu Val Ala Leu Leu Phe Ser Ser Phe Leu Lys Leu
1 5 10 15

Arg Glu Val Glu Ser Ile Ser Lys Ile Lys Asn Lys Met Ser Lys Arg
20 25 30

Gln Asp Leu Arg Thr Gly Trp Ala Cys Ser Asn Met Thr Ala Cys Thr
35 40 45

Leu Trp Gly Lys Ile Tyr Trp Ser Ser Gln Val
50 55

<210> 3091
<211> 39
<212> PRT
<213> Homo sapiens

<400> 3091
Lys Ala Ala Leu Ser Gly Ser Glu Ile Met Cys His Phe Trp Trp Val
1 5 10 15

Ala Gly Pro Ala Ile Ala Asn Tyr His Lys Gln Lys Cys Ile Leu Leu
20 25 30

Tyr Asn Ser Gly Gly Lys Val
35

<210> 3092
<211> 120
<212> PRT
<213> Homo sapiens

<400> 3092
Gln Gly Arg Val Val Pro Val His Leu Val Leu Leu Pro Gly Val Leu
1 5 10 15

Ile Pro His Gly Pro Pro Met Cys Gly Pro Asp Pro Lys Tyr Pro Gln
20 25 30

Asp Asn His Glu His Gln Glu Ala Asp Ala His His Asp His Asn Cys

```
        35                  40                  45

Arg Ser Ala Gly Asp Asp Cys Gly Arg Met Arg Gly Arg Asp Ala Arg
     50                  55                  60

Ser Leu Gly Pro Glu Gly His Cys Ala Leu Asp Leu Leu Gly Cys Ala
 65                  70                  75                  80

Trp Ser Lys Arg Ala Gly Gln His Ala Ser Ala Glu Pro Thr Gly Gln
                 85                  90                  95

Glu Glu Ile Pro Gly Lys Ala Arg His Gly Pro Pro Thr Trp Leu Gly
            100                 105                 110

His Val Leu Leu His Ser Cys Gly
        115                 120
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WO 2004/046320 PCT/US2003/036845

<210> 3093
<211> 45
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3093

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Met Phe Leu Gln Gln Leu Trp Trp Gln Leu Ser Leu Arg Asn Leu Trp
  1               5                  10                  15

Cys Val Val Gly Ser Tyr Gln Asn Lys Lys Cys Arg His Phe Pro Phe
             20                  25                  30

Phe Trp Gly Xaa Xaa Val Gly Gly Xaa Ala Leu Pro Ser
         35                  40                  45
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<210> 3094
<211> 20
<212> PRT
<213> Homo sapiens

<400> 3094

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Met Ala Cys Phe Leu Ala Val Val Met Trp Val Phe Leu Pro Val Gly
  1               5                  10                  15

Ser Cys Pro Leu
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20

<210> 3095
<211> 44
<212> PRT
<213> Homo sapiens

<400> 3095
Met Pro Ile Thr Tyr Pro Phe Cys Ile Leu Glu Ile Ile Ile Ile Leu
1 5 10 15

Tyr Cys Leu Pro Pro Ser Pro Val Phe Gly Thr Leu Glu Ser Thr Thr
20 25 30

Asn Cys Leu Tyr Glu Lys Lys Lys Lys Lys Asn Ser
35 40

<210> 3096
<211> 35
<212> PRT
<213> Homo sapiens

<400> 3096
Met Ala Leu Asn Thr Ile Ser His Gln Ile Tyr Leu Pro Pro Gly Pro
1 5 10 15

Leu Pro Cys Pro Trp Ala Ser Cys Ile Leu Leu Pro Thr Cys Thr Tyr
20 25 30

Val Trp Thr
35

<210> 3097
<211> 33
<212> PRT
<213> Homo sapiens

<400> 3097
Thr Lys Pro Pro Leu Ser Val Leu Phe Trp Gly Val Gly Trp Val Cys
1 5 10 15

Val Trp Gly Trp Val Gly Met Gly Asn Pro Ser Pro Ser Arg Ser Trp
20 25 30

Gly

<210> 3098
<211> 39
<212> PRT
<213> Homo sapiens

<400> 3098

Met Ile Ile Leu Asn Thr Ile Lys Val Leu Ile Leu Phe Val Phe Val
1 5 10 15

Phe Met Met Cys Asp Asn Ile Leu Gly Ile Thr Gln Lys Glu Leu Tyr
20 25 30

Phe Phe Lys Lys Phe Thr Phe
35

<210> 3099
<211> 29
<212> PRT
<213> Homo sapiens

<400> 3099
Met Trp Leu Gln Gly Leu Pro Ala Ala Ile Leu His Ala Ala Gly Ser
1 5 10 15

Ala Phe His Asp Pro Arg Gln Gln Pro Gly Pro His Ser
20 25

<210> 3100
<211> 33
<212> PRT
<213> Homo sapiens

<400> 3100
Met Ile Gly Cys Val Ile Pro Tyr Ile Leu Ile Leu Asn Tyr Ile Ile
1 5 10 15

Gly Gly Ser Phe Cys Phe Thr Leu Met Cys Pro Gly Asp Ser Cys Leu
20 25 30

Ala

<210> 3101
<211> 48
<212> PRT
<213> Homo sapiens

<400> 3101
Met Met Val Ile Val Cys Val Ile Val Gln Lys Ala Leu Ser Val Pro
1 5 10 15

Ser Pro Leu Gln Gly Thr Leu Leu Thr Pro Ile Leu Gln Gly Leu Leu
20 25 30

Gln Met Pro Phe Ser Pro Gly Lys Pro Phe Arg Ile Leu Ser Trp Ile
35 40 45

<210> 3102
<211> 49
<212> PRT
<213> Homo sapiens

<400> 3102
Met His Thr His Gly Ser Cys Leu Ser Met His Trp Phe Cys His Trp
1 5 10 15

Arg Pro Gly Ile Arg Pro Cys Trp Gly Ala Gly Ala Val Arg Leu Arg
20 25 30

Leu Ile Leu Ala Arg Ala His Thr Ser Lys Gly Gln Ala Gly Ser Ala
35 40 45

Trp

<210> 3103
<211> 34
<212> PRT
<213> Homo sapiens

<400> 3103
Met Ala Ala Cys Cys Ser Ala Leu Leu Leu Leu Phe Pro Pro Cys Phe
1 5 10 15

His Leu Cys Ser Leu Glu Ala Phe Pro Ser Trp Cys Val Gln Asp Ser
20 25 30

Ser Trp

<210> 3104
<211> 34
<212> PRT
<213> Homo sapiens

<400> 3104
Met Ala Ala Cys Cys Ser Ala Leu Leu Leu Leu Phe Pro Pro Cys Phe
1 5 10 15

His Leu Cys Ser Leu Glu Ala Phe Pro Ser Trp Cys Val Gln Asp Ser
20 25 30

Ser Trp

<210> 3105
<211> 21
<212> PRT
<213> Homo sapiens

<400> 3105

Leu Leu Leu His Ser Val His Leu Leu Leu Tyr Glu Met Thr Leu Arg
1 5 10 15

Pro Pro Ile Leu Leu
20

<210> 3106
<211> 36
<212> PRT
<213> Homo sapiens

<400> 3106
Met Thr Gln Asn Asp Leu Ala Ala Val Leu Leu Arg Trp Arg Arg Pro
1 5 10 15

Gly Leu Gly Trp Cys Ser Arg Leu Leu Thr Ala Cys Cys Leu Pro Thr
20 25 30

Leu Pro Ala Ser
35

<210> 3107
<211> 4
<212> PRT
<213> Homo sapiens

<400> 3107
Met Cys Ala Phe
1

<210> 3108
<211> 29
<212> PRT
<213> Homo sapiens

<400> 3108
Pro Gln Val Val Cys Arg Val Val Phe Thr Pro Cys Gln Ser Pro His
1 5 10 15

Ser Pro Ala Arg Gln Thr Val Phe Asn Ser Phe His Gly
20 25

<210> 3109
<211> 49
<212> PRT
<213> Homo sapiens

<400> 3109
Glu Trp Gly Gly Leu Arg Lys Leu Ile Ile Cys Ala Cys Phe Pro Phe
1 5 10 15

Thr Phe Cys His Asp Cys Lys Phe Leu Lys Pro Pro Gln Pro Phe Leu
20 25 30

Thr Ala Asn Arg Thr Val Ser Lys Ser Asn Phe Leu Ser Phe Ser Leu
35 40 45

Arg

<210> 3110
<211> 36
<212> PRT
<213> Homo sapiens

<400> 3110
Cys Leu Gln Ile Ala Ser Cys Phe Pro Phe Cys Gln Ile Leu Ile Ile
1 5 10 15

Phe Phe Phe Gln Lys Gly Lys Lys Lys His Lys Gln Pro Asn Phe Ile
20 25 30

Phe His Ile Val
35

<210> 3111
<211> 10
<212> PRT
<213> Homo sapiens

<400> 3111
Met Lys Thr Phe Val Cys Ala Phe Asp Leu
1 5 10

<210> 3112
<211> 31
<212> PRT
<213> Homo sapiens

<400> 3112
Met Lys Met Thr Phe Met Tyr Gly Arg Leu Thr Phe Phe Leu Ser Leu
1 5 10 15

Pro Thr Leu Tyr Leu Cys Tyr Phe Tyr Leu Pro Asn Lys Ile Pro
20 25 30

<210> 3113
<211> 84
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3113
Met Ile Trp Ser Ala Gly Arg Trp Thr Tyr Ala Val Leu Phe His Cys
1 5 10 15

Cys Gln Thr Leu Leu Pro Trp Lys Xaa Pro Leu Glu Lys Val Trp His
20 25 30

His Gln Asp Gly Gln Val Gly Ser Gly Leu Ser Val Gln Pro Arg Thr
35 40 45

Gln Pro Pro Val Ser Trp Leu Ala Val Pro Gly Leu Ala Pro Phe Gln
50 55 60

Gln Leu Ser Arg Pro Gly Arg Ser Gly Leu Ser Cys Ser Asp Ser Tyr
65 70 75 80

Ser Leu Ile Leu

<210> 3114
<211> 46
<212> PRT
<213> Homo sapiens

<400> 3114
Met Gln Val Lys Val Pro Ser Gly Arg Leu Ala Val Thr Pro Phe Arg
1 5 10 15

Leu Leu Ala Val Ala Leu Trp Thr Val Ser Phe Leu Pro Leu Pro Leu
20 25 30

Arg Arg Val Val Gly Thr Ala Thr Ser Arg Leu Pro Asp Arg
35 40 45

<210> 3115
<211> 10
<212> PRT
<213> Homo sapiens

<400> 3115
Ser Met Val Trp Leu Leu Gly Trp Cys Leu
1 5 10

<210> 3116
<211> 35
<212> PRT
<213> Homo sapiens

<400> 3116
Met Lys Ser Gly Cys Leu Lys Glu Ser Gly Thr Pro Pro Phe Ser Cys
1 5 10 15

Ser Cys Ser Cys Ser Pro His Asp Val Thr Cys Leu Leu Ser Leu Cys
20 25 30

Val Leu Pro
35

<210> 3117
<211> 28
<212> PRT
<213> Homo sapiens

<400> 3117
Met Val Asn Met Gly Ser Ala Trp Pro Phe Leu Tyr Gly Tyr Phe Ser
1 5 10 15

Leu Lys Met Val Leu Met Phe Ile His Ile Tyr Ser
20 25

<210> 3118
<211> 7
<212> PRT
<213> Homo sapiens

<400> 3118
Met Val Asp Glu Lys Gly Phe
1 5

<210> 3119
<211> 4
<212> PRT
<213> Homo sapiens

<400> 3119
Gly Phe Asp Leu
1

<210> 3120
<211> 60
<212> PRT
<213> Homo sapiens

<400> 3120
Met Gly Ser Trp Ala Pro Gly Thr Ala Met Ala Arg Ala Leu Leu Cys
1 5 10 15

Gly Cys Arg Ser Gly Ser Trp Gly Cys Gly Trp Trp Gly Ser Leu Gly
20 25 30

Gly Ala Ala Ser Pro Ala Glu Gly Leu Phe Arg Ala Leu Gly Ala Val
35 40 45

Ser Arg Gly Ser Pro Leu Cys Val Ser Arg Ala Pro
50 55 60

<210> 3121
<211> 27
<212> PRT
<213> Homo sapiens

<400> 3121
Met Pro Pro Ser Pro Leu Gly Trp Cys Cys Gly Ser Ile Trp Trp Leu
1 5 10 15

Tyr Arg Gln Trp Val Ala Ala Gln Leu Lys Asn
20 25

<210> 3122
<211> 119
<212> PRT
<213> Homo sapiens

<400> 3122
Met Leu Pro Leu Pro Ser Asp Ala Gly Leu Ala Leu Leu Leu Gln Val
1 5 10 15

Cys Phe Ser His Ser Cys Gly Cys Arg Asn Leu Ile Tyr Arg Glu Glu
20 25 30

Pro Val Ala Ala Ala Ala Pro Ala Thr Ala Ala Leu Thr Val Leu Thr
35 40 45

Thr His Leu Gly Gln Pro Ser Leu Ala Gly Ala Leu Val Ala Ser His
50 55 60

Phe Pro Phe Pro Ser Leu Trp Leu Arg Gly Gly Val Arg Gly Trp Arg
65 70 75 80

Gly Arg Ala Ala Tyr His Gly Leu Gly Leu Glu Glu Asp Glu Phe Val
85 90 95

Asp Leu Asn Lys Glu Phe Val Ile Leu Lys Lys Lys Lys Lys Lys Lys
100 105 110

Lys Lys Lys Lys Lys Lys Lys
115

<210> 3123
<211> 6
<212> PRT
<213> Homo sapiens

<400> 3123
Met Ala Ala Arg Gly Leu
1 5

<210> 3124
<211> 36
<212> PRT
<213> Homo sapiens

<400> 3124
Val Cys Ser Asn Met Arg Ser Arg Ser Gly Thr Ser Ser Pro Ala Arg
1 5 10 15

Trp Gly Pro Ala Thr Ser Arg Ile Thr Trp Pro Ser Cys Ser Ile Thr
20 25 30

Val Arg Glu Pro
35

<210> 3125
<211> 49
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3125
Met Gly Leu Val Arg Tyr Val Ser Ile Ser Leu Cys Trp Phe Phe Cys
1 5 10 15

Leu Gln Lys Pro Arg Phe Leu Phe Leu Phe Glu Lys Lys Lys Lys Lys
20 25 30

Lys Xaa Gly Gly Leu Xaa Xaa Gly Pro Gly Ala His Gly Phe Ser His
35 40 45

Pro

<210> 3126
<211> 49
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3126
Met Gly Leu Val Arg Tyr Val Ser Ile Ser Leu Cys Trp Phe Phe Cys
1 5 10 15

Leu Gln Lys Pro Arg Phe Leu Phe Leu Phe Glu Lys Lys Lys Lys Lys
20 25 30

Lys Xaa Gly Gly Leu Xaa Xaa Gly Pro Gly Ala His Gly Phe Ser His
35 40 45

Pro

<210> 3127
<211> 43
<212> PRT
<213> Homo sapiens

<400> 3127
Met Asn Gln Cys Arg Cys Ile Gln Phe Phe Phe Trp Lys Trp Lys Leu
1 5 10 15

His Phe Ile Ile Val Ile Leu Arg Val Ile Gln Asp Phe Glu Lys Ser
20 25 30

Phe Gly Lys Asn Arg Lys Met Leu Glu Lys Ile
35 40

<210> 3128
<211> 12
<212> PRT
<213> Homo sapiens

<400> 3128
Met Ser Cys Thr Leu Cys Phe Gly Ser Tyr Val Leu
1 5 10

<210> 3129
<211> 32
<212> PRT
<213> Homo sapiens

<400> 3129
Met Lys Ser Leu Leu Pro Gly Phe Gly Tyr Cys Gln Ser Ser Pro Ala
1 5 10 15

Ser Phe Leu Tyr Pro Phe Leu Ser Phe Pro Ser Leu Pro Arg Ser Ser
20 25 30

<210> 3130
<211> 43
<212> PRT
<213> Homo sapiens

<400> 3130
Met Gly Val Phe Thr Tyr Thr Cys Leu Leu Leu Thr Val Leu Gly Lys
1 5 10 15

Ser Cys Lys Ile Val Thr His Ser Ala Val Ile Ser Leu Phe Leu Phe
20 25 30

Val Lys Asp Ser Lys Lys Lys Lys Lys Asn Ser
35 40

<210> 3131
<211> 41
<212> PRT
<213> Homo sapiens

<400> 3131
Met Thr Ile Ser Ser Gln Phe Leu Phe Phe Ile Phe Tyr Phe His Leu
1 5 10 15

Tyr Val Phe Glu Gly Arg Gly Lys Ile Lys Val Cys Ala His Tyr Thr
20 25 30

Ile Leu Val Phe Pro Lys Ser Val Pro
35 40

<210> 3132
<211> 33
<212> PRT
<213> Homo sapiens

<400> 3132
Met Gly Leu Val Arg Tyr Val Ser Ile Ser Leu Cys Trp Phe Phe Cys
1 5 10 15

Leu Gln Lys Pro Arg Phe Leu Phe Leu Phe Glu Lys Lys Lys Lys Lys
20 25 30

Lys

<210> 3133
<211> 66
<212> PRT
<213> Homo sapiens

<400> 3133
Met Gly Leu Gln Asp Asn Arg Ile Leu Ser Pro Phe Leu Ala Ile Trp
1 5 10 15

Val Leu Phe Phe Lys Ser Phe Gly Leu Gly Arg Ala Leu Phe Phe Phe
20 25 30

Cys Phe Asp Ile Phe Ile Phe Ser Ala Val Thr Gly Cys Gln His Asn
35 40 45

Leu His Gln Leu Glu Ile Arg Asn Gln Lys Lys Lys Lys Lys Ile Leu
50 55 60

Thr Thr
65

<210> 3134
<211> 39
<212> PRT
<213> Homo sapiens

<400> 3134
Met Gly Arg Leu Gly Arg Glu Leu Arg Thr Ala Tyr Leu Leu Phe Ile
1 5 10 15

Leu Arg Leu Ser Tyr Thr Ser Ala Gly Leu Ser Leu Arg Gly Thr Ile
20 25 30

Ser Ser Val Ser Gln Pro Gln
35

<210> 3135
<211> 30
<212> PRT
<213> Homo sapiens

<400> 3135
Met Trp Ile Leu Ser Cys Ile Phe Met Ile Asn Val Ile Val Ala Val
1 5 10 15

Leu Pro Met Arg Val Gly Leu Glu Gly Leu Asn Asn Leu Ser
20 25 30

<210> 3136
<211> 38
<212> PRT
<213> Homo sapiens

<400> 3136
Met Pro Leu Asn Ser Leu Pro Gln Leu Ala Phe His Trp Glu Leu Pro
1 5 10 15

Leu Gln Phe Leu Val Val Leu Val Cys Met Thr Leu Gly Ile Thr Val
20 25 30

His His Pro His Gln Ser
35

<210> 3137
<211> 243
<212> PRT
<213> Homo sapiens

<400> 3137
Leu Ala Ala Leu Ser Leu His Ala Ala Gly Ser Val Leu Gly Val Pro
1 5 10 15

Pro Arg Ala Ala Val His Pro Ala Arg Arg Gly Arg Pro Ala Ala Gly
20 25 30

Pro Gly Gly Leu Leu His Leu Pro Gly Gly Gln Pro Pro Glu Gly Pro
35 40 45

Val Pro Pro His Gly Trp Ala Leu Pro His Leu Gly Gln Glu Ala Gln
50 55 60

Gly His Arg Val Leu Leu His Ile Arg Arg Arg Ala Glu Ala Pro Gln
65 70 75 80

Gln Ala Ala Gly Val Gly Leu Leu Gly Arg Gly Pro Pro Leu Gln Leu
85 90 95

Arg Arg Arg Pro Asp Gly Gln Pro Gly Leu Leu Pro Gly Leu Trp Arg
100 105 110

Trp Pro Pro Ala Ala Leu Leu Leu His His Leu His Gly His Pro Ala
115 120 125

Asp Pro Pro Leu Pro Pro Gly Arg Ala Pro Leu Arg Gln Gln Val Arg
130 135 140

Pro Gly Leu Gly Ala Leu His Arg Arg Ser Ala Leu Pro Pro Ala Ala
145 150 155 160

Trp Asn Leu Leu Arg Ala Arg Pro Arg Glu Lys Pro Cys Gly Ala Val
165 170 175

Lys Ser Val Phe Cys Gln Val His Gly Gly Trp His Pro Ser Ser Asn
180 185 190

Ser Arg Ser Leu Ser Phe Leu Ile Cys Lys Leu Glu Arg Ala Gln His
195 200 205

Leu Ala Gly Val Gln Tyr Leu Ile Thr Leu Cys Ser Leu Leu Leu Pro
210 215 220

Ser Arg Glu Phe Arg Val Ser Ser Thr Ala Val Leu Pro Ala Gln Thr
225 230 235 240

Asp Phe Leu

<210> 3138
<211> 33
<212> PRT
<213> Homo sapiens

<400> 3138
Met Leu Cys Ser Trp Phe Phe Leu Pro Leu Phe Leu Thr Ile Leu Asn
1 5 10 15

Ile Ala Thr Thr Ser Thr Leu Cys Lys His Gln Val Cys Ala Pro Tyr
20 25 30

Thr

<210> 3139
<211> 44
<212> PRT
<213> Homo sapiens

<400> 3139
Val Ser Leu Ser Cys Phe Leu Thr Leu Leu Pro Gly Leu Leu Cys Val
1 5 10 15

His Leu Arg Leu Ala Trp Ser Lys Gln Val Arg Pro Leu Leu Leu Tyr
20 25 30

Ser Leu Val Leu Phe Trp His Leu Val Lys Leu Ala
35 40

<210> 3140
<211> 117
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (117)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3140
Met Asp Leu Ser His Leu Leu Ala Leu Trp Cys His Pro Gly Leu His
1 5 10 15

Cys Cys Trp Thr Cys Cys Ser Ser Pro Ser Gln Thr Thr Ser Phe Gln
20 25 30

Ser Pro Phe Gln Phe Leu Leu His Pro Pro Pro Met Ala Ser Asn Ser
35 40 45

Ala Ala Leu Cys Ser Pro Leu Ser Val Leu Ser Pro Glu Phe His Leu
50 55 60

Leu Thr Arg Pro Gly Pro Leu Leu Pro Phe Pro Gln Ala Leu Gln Leu
65 70 75 80

Phe Phe Arg Thr Glu Ser Leu Asn Ser Pro Phe Ile Leu Leu Leu Leu
85 90 95

His Leu Gln Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
100 105 110

Lys Lys Lys Lys Xaa
115

<210> 3141
<211> 39
<212> PRT
<213> Homo sapiens

<400> 3141
Met Tyr Leu Ser Ile Ser Ile Phe Phe Phe Gly Phe Cys Ile Ile Ser
1 5 10 15

Cys Lys Cys Ile Val Lys Asn Phe Ile Phe Gly Val Ala Met Arg Gly
20 25 30

Gly Glu Val Arg Leu Cys Thr
35

<210> 3142
<211> 32
<212> PRT
<213> Homo sapiens

<400> 3142
Met Pro Arg Gly Phe Thr Trp Leu Arg Tyr Leu Gly Ile Phe Leu Gly
1 5 10 15

Val Ala Leu Gly Asn Glu Pro Ser Glu Asn Val Ala Leu Asp Ala Glu
20 25 30

<210> 3143
<211> 31
<212> PRT
<213> Homo sapiens

<400> 3143
Met Gln Cys Ile Ile Ile Phe Ser Ile Leu Phe Cys Leu Phe Phe Cys
1 5 10 15

Ser Cys Leu Thr Gln Asn Ile Lys Leu Val Leu Gln Pro Thr Ile
20 25 30

<210> 3144
<211> 50

<212> PRT
<213> Homo sapiens

<400> 3144
Met Trp Ile Pro Leu Arg Pro Ala Pro Leu His Trp Ser Trp Arg Leu
1 5 10 15

Ile Trp Glu Ala Val Cys Ala Leu Ala Pro Glu Gly Thr Trp Ser Thr
20 25 30

Pro His Leu Glu Asn Pro His Pro Glu His Ser Phe Pro Gly Ala Pro
35 40 45

Leu Thr
50

<210> 3145
<211> 85
<212> PRT
<213> Homo sapiens

<400> 3145
Met Val Gly Gly Pro Pro Phe Val Gly Pro Val Gly Phe Gly Pro Gly
1 5 10 15

Asp Arg Ser His Leu Asp Ser Pro Glu Ala Arg Glu Pro Cys Ser Cys
20 25 30

Gly Gly Gln Leu Trp Pro Pro Arg Gly Pro Leu Ser Cys Val Gln Pro
35 40 45

Ser Ser Pro Thr Cys Tyr Arg Glu Gln Gln Pro Ala Pro Ala Leu Trp
50 55 60

Pro Tyr Gly Pro Leu Thr Arg Pro Ser Trp Ala Pro Leu Cys Leu Gly
65 70 75 80

Pro Leu Asp His Pro
85

<210> 3146
<211> 67
<212> PRT
<213> Homo sapiens

<400> 3146
Met Val Ser Leu Ala Leu Thr Leu Thr Ile Pro Ser Pro Ile Leu Trp
1 5 10 15

Thr Ile Cys Met Ala Ile Leu Arg Val Arg Thr Pro Cys Glu Arg Pro
20 25 30

Ser Ser Ser Cys Ile Gln Thr Gly Gln Thr Val Thr Thr Leu Arg Pro
35 40 45

Ala Val Lys His Trp Trp His Ser Ser Leu Thr Thr Ser Gly Trp Ser
50 55 60

Pro Gln Trp
65

<210> 3147
<211> 28
<212> PRT
<213> Homo sapiens

<400> 3147
Met Tyr Ile Lys Leu Leu Ile Val Leu Leu Glu Ser Phe Ala Leu Leu
1 5 10 15

Ser Cys Leu Met Glu Gln Phe Leu Met Glu Met Cys
20 25

<210> 3148
<211> 39
<212> PRT
<213> Homo sapiens

<400> 3148
Met Ile Trp Ala Leu Gly Asn Leu Glu Val Leu Gly Leu Cys Leu Cys
1 5 10 15

Ser Ser Ile Phe Ile Arg Lys Glu Ser Ile Gly Leu Leu Gln Gly Ile
20 25 30

Asn Pro Phe Val Thr Tyr His
35

<210> 3149
<211> 54
<212> PRT
<213> Homo sapiens

<400> 3149
Met Lys Ala His Lys Ser Ser Gly Tyr Asn Gly Leu Leu Gly Ile Leu
1 5 10 15

Leu Tyr Leu Ile Tyr Phe Leu Leu Phe Asp Ile Phe Gln Gln Phe Val
20 25 30

Leu Gly Pro Ser Trp Glu Ala Ser Val Ile Leu Lys Leu Gln Ile Cys
35 40 45

Ile Ser Asn Leu Lys Gly
50

<210> 3150
<211> 38
<212> PRT
<213> Homo sapiens

<400> 3150
Met Ser Leu Asn Phe Val Arg Ile Phe Ile Ile Val Phe His Ile Cys
1 5 10 15

Glu Ile Ser Ser Phe Phe Arg Val His Arg Val Ser Leu Phe Tyr Arg
20 25 30

Phe Leu Lys Met Arg Phe
35

<210> 3151
<211> 179
<212> PRT
<213> Homo sapiens

<400> 3151
Met Gly Leu Ile Phe Ala Lys Leu Trp Ser Leu Phe Cys Asn Gln Glu
1 5 10 15

His Lys Val Ile Ile Val Gly Leu Asp Asn Ala Gly Lys Thr Thr Ile
20 25 30

Leu Tyr Gln Phe Leu Met Asn Glu Val Val His Thr Ser Pro Thr Ile
35 40 45

Gly Ser Asn Val Glu Glu Ile Val Val Lys Asn Thr His Phe Leu Met
50 55 60

Trp Asp Ile Gly Gly Gln Glu Ser Leu Arg Ser Ser Trp Asn Thr Tyr
65 70 75 80

Tyr Ser Asn Thr Glu Phe Ile Ile Leu Val Val Asp Ser Ile Asp Arg
85 90 95

Glu Arg Leu Ala Ile Thr Lys Glu Glu Leu Tyr Arg Met Leu Ala His
100 105 110

Glu Asp Leu Arg Lys Ala Ala Val Leu Ile Phe Ala Asn Lys Gln Asp
115 120 125

Met Lys Gly Cys Met Thr Ala Ala Glu Ile Ser Lys Tyr Leu Thr Leu
130 135 140

Ser Ser Ile Lys Asp His Pro Trp His Ile Gln Ser Cys Cys Ala Leu
145 150 155 160

Thr Gly Glu Gly Leu Cys Gln Gly Leu Glu Trp Met Thr Ser Arg Ile
165 170 175

Gly Val Arg

<210> 3152
<211> 81
<212> PRT
<213> Homo sapiens

<400> 3152
Met Phe Asn Phe Gly Ser Pro Met Trp Leu Phe Val Arg Ser Gly Leu
1 5 10 15

Leu Lys Leu Asp Leu Ala Arg Tyr Ser Leu Pro Cys Trp Arg Phe Ile
20 25 30

Pro Thr Asn Gln Leu Cys Gly Leu Trp Gln Pro Asn Gly Lys Trp Lys
35 40 45

Ile Asp Cys Leu Gln Lys Ala Gln Gly Asn Tyr Phe Phe Ala His Cys
50 55 60

Ala Phe Ile Gln Ser Ala Gln Asn Phe Ile Lys Asn Thr Leu Gly Trp
65 70 75 80

Ser

<210> 3153
<211> 55
<212> PRT
<213> Homo sapiens

<400> 3153
Met Phe Ile Tyr Glu Ser Asn Ile Ala Asn Leu Ser Leu Ile Ile Leu
1 5 10 15

Phe Leu Lys His Gln Val Tyr Ser Gln Cys Val Ala Leu Met Thr Ile
20 25 30

Ser Trp Glu Arg Asn Arg Thr Ala Ile Met Thr Asn Gly Lys Asp Ser
35 40 45

Lys Ala Val Ser Asp Gly Lys
50 55

<210> 3154
<211> 29
<212> PRT
<213> Homo sapiens

<400> 3154
Met Ser Leu Leu Pro Ser Met Tyr Leu Leu Cys Ser Thr Val Glu Ile
1 5 10 15

Phe Leu Pro Ile Phe Lys Leu Gly Phe Phe Phe Cys Tyr
20 25

<210> 3155
<211> 31
<212> PRT
<213> Homo sapiens

<400> 3155
Met Thr Gly Cys Leu Cys Thr Val Cys Ile Trp Leu Ser Arg Cys Leu
1 5 10 15

Cys Ala Glu Ser Met Pro Pro Val Gly Ile Arg Phe Tyr Leu Phe
20 25 30

<210> 3156
<211> 33
<212> PRT
<213> Homo sapiens

<400> 3156
Met Ser Leu Trp Met His Arg Leu Thr Ser Leu Ser Leu Gln Ile Leu
1 5 10 15

Ser Ser Ala Glu Gly Ile Ile Ile Ser His Arg Thr Val Met Lys Thr
20 25 30

Lys

<210> 3157
<211> 24
<212> PRT
<213> Homo sapiens

<400> 3157
Met Arg Asn Gln Gly Ala Trp Leu Trp Val Ser Ser Ile Cys Leu Ala
1 5 10 15

Cys Gly Ala Ser Cys Gly Asp Gln
20

<210> 3158
<211> 43
<212> PRT
<213> Homo sapiens

<400> 3158
Met Pro Ala Arg Thr Ser Gly Lys Gln Ser His Ile Cys Glu Asn Ser
1 5 10 15

Gly Arg Arg Cys Ser Leu Leu Leu Leu Val Lys Cys Leu Glu Arg Arg
20 25 30

Gly Arg Ser Pro Thr Lys Gly Thr Pro Ser Gly
35 40

<210> 3159
<211> 32
<212> PRT
<213> Homo sapiens

PCT/US2003/039525

<400> 3159
Met Met Asn Tyr Leu Leu Lys Leu Phe Thr Val Pro Leu Pro Ala Ile
1 5 10 15

Cys Phe Leu Phe Phe Phe Ser Pro Ala Pro Ser Val Cys His Met Phe
20 25 30

<210> 3160
<211> 56
<212> PRT
<213> Homo sapiens

<400> 3160
Met Pro Thr Trp Val Leu Cys Gly Arg Thr Ser Leu Leu Ser His Ser
1 5 10 15

Trp Cys Gly Ser Gly Gln Gln Met Lys Thr Pro Leu Pro Thr Thr Arg
20 25 30

Ser Pro Thr Ala Leu Ser Val His Leu Ser Leu Ala Ala Thr Ser Thr
35 40 45

Ser Ala Cys Thr Arg Ala Met Glu
50 55

<210> 3161
<211> 63
<212> PRT
<213> Homo sapiens

<400> 3161
Met Leu Pro Gln Met Tyr Leu Lys Ser Arg His Ser Phe Thr Lys Glu
1 5 10 15

Glu Glu Ala Val Leu Phe Cys Leu Ile Ala Leu Val Thr Lys Leu Met
20 25 30

Phe Thr Ser Leu Ser Leu Ala Pro Gly Ser Ala Leu Ile Leu Gln Lys
35 40 45

Thr Glu Leu Lys Ser Gln Ala Tyr Phe Pro Val Gly Leu Cys Leu
50 55 60

<210> 3162
<211> 34
<212> PRT
<213> Homo sapiens

<400> 3162
Gly Leu Val Val Leu Phe Leu Pro Ser Ser Leu Ala Leu Leu Leu Lys
1 5 10 15

Ser His Arg Leu Arg Met Arg Arg Ala Val Lys Asp Thr Ser Ser Ala
20 25 30

Ala Phe

<210> 3163
<211> 42
<212> PRT
<213> Homo sapiens

<400> 3163
Met Cys Gly Val Cys Leu Cys Leu Leu Pro Arg Thr Ile Thr Ser Phe
1 5 10 15

Pro Phe Ser His Ile Thr Ala Leu Leu Ala Ala Ala Val Val Cys Cys
20 25 30

Lys Ser Glu Leu Ile Asn Pro Thr Glu Tyr
35 40

<210> 3164
<211> 100
<212> PRT
<213> Homo sapiens

<400> 3164
Met Trp His Leu Leu Val Phe Ile Val Cys Val Phe Phe Val Tyr Tyr
1 5 10 15

Thr Leu Gly Asn Phe Val Leu Pro Lys Lys Lys Lys Lys Gly Ser Val
20 25 30

Met Ser Asp Thr Gln Glu Lys Gln Ile Ser Val Val Ser Leu Lys Tyr
35 40 45

Asn Phe Lys Gly His Tyr Gln Gln Gln Gly Phe Phe Tyr Thr Leu Lys
50 55 60

Thr Leu Cys Tyr Ile Ser Leu Pro Phe Ser Tyr Phe Gly Val Leu Leu
65 70 75 80

Leu Leu Tyr Asn Gly Ile Asn Gly Asn Val Ile Gln Pro Leu Asn Cys
85 90 95

His Tyr Tyr Ile
100

<210> 3165
<211> 41
<212> PRT
<213> Homo sapiens

<400> 3165

Trp Gly Cys Gln Lys Trp Arg Leu Gln Pro Pro Arg Val Ser Ser Ser
1 5 10 15

Gly Ala Pro Cys Phe Val Pro Pro Ser Cys Ala Ile Gln Arg Gly Pro
20 25 30

Pro Gly Leu Ala Glu Thr Pro Pro Gly
35 40

<210> 3166
<211> 3
<212> PRT
<213> Homo sapiens

<400> 3166
Met Glu Met
1

<210> 3167
<211> 30
<212> PRT
<213> Homo sapiens

<400> 3167
Met Pro Gly Val Phe Phe Phe Phe Val Phe Phe Phe Asn Ser Tyr Phe
1 5 10 15

Gly Cys Ala Leu Val Ser Gln Cys Ser Phe Asn Leu His Phe
20 25 30

<210> 3168
<211> 60
<212> PRT
<213> Homo sapiens

<400> 3168
Met Arg Ser Val Pro Ala Ile Leu Gln Met Leu Trp Ile Leu Arg Arg
1 5 10 15

Ser Thr Asn Trp Thr Leu Tyr Leu Ile Leu His Gly Cys Pro Ala Val
20 25 30

Val Cys Ala Trp Pro Arg Gln His Ala Pro Trp Gly Met Val Arg Leu
35 40 45

Trp Val Pro Thr Ala Ala Pro Ala Ala Leu Ser Pro
50 55 60

<210> 3169
<211> 38
<212> PRT
<213> Homo sapiens

<400> 3169
Met Glu Lys Thr Leu Lys Val Leu Phe Leu Phe Ser His Pro Ala Thr
1 5 10 15

Ile Asn Thr Val Asp Phe Cys Glu Met Cys Gly Val Phe Ser Pro Asp
20 25 30

Thr Lys Gln Val Leu Thr
35

<210> 3170
<211> 21
<212> PRT
<213> Homo sapiens

<400> 3170
Val His Lys Lys His Ser Thr Gly Thr Lys Ser Phe Ser Lys Pro Ala
1 5 10 15

Val Phe Gly Glu His
20

<210> 3171
<211> 57
<212> PRT
<213> Homo sapiens

<400> 3171
Met Ala Leu Asp Ser Ser Thr Leu Val Ala Leu Leu Gly Thr Ala Pro
1 5 10 15

Leu Leu Ala Ala Phe Thr Ala Gly Val Glu Cys Leu Trp Leu Phe Gln
20 25 30

Ala Leu Ser Ala Ser Cys Pro Trp Ile Asp His Ser Gly Val Trp Arg
35 40 45

Thr Val Ala Leu Phe Ser Gln Leu His
50 55

<210> 3172
<211> 51
<212> PRT
<213> Homo sapiens

<400> 3172
Met Ala Pro Cys Cys Trp Ala Leu Trp Val Gly Ser Ala Pro Trp Glu
1 5 10 15

Pro Ala Ser Met Pro Gly Pro His Ser Ser His Ser Cys Trp Ser Leu
20 25 30

Ala Pro Trp Pro Leu Cys Ser Ser Ile Leu Trp Val Trp Gly Arg Arg
35 40 45

Thr Ser Ala
50

<210> 3173
<211> 35
<212> PRT
<213> Homo sapiens

<400> 3173
Met Leu Ala Val Leu Ser Leu Cys Asn Phe Cys Arg Cys Ser Leu Gly
1 5 10 15

Arg Glu Leu Phe Phe Arg Arg Leu Ala Lys Ser Gln Val Leu Ser Leu
20 25 30

Asp Leu Arg
35

<210> 3174
<211> 186
<212> PRT
<213> Homo sapiens

<400> 3174
Leu Ala Gly Arg Leu Pro His Pro Gly Arg Pro Ala Ala Gln Leu Leu
1 5 10 15

Arg Val Cys Arg Thr His Glu Ala Pro Gly Gly His Gly Pro Ala Gly
20 25 30

Leu Gly Ala Ala Ala Thr Leu Pro Ala Pro Ala Arg Pro Glu Arg Leu
35 40 45

Pro Gly Pro Arg Leu Cys Ala Leu Arg Arg Gly Arg Leu Gly His Gly
50 55 60

Ala Gly Ala Leu Arg Pro Ala Arg Val Arg Gly Glu Leu Arg Gln Gly
65 70 75 80

Pro Gly Arg Ala Gln Thr Pro Arg Pro Pro Ser Cys Ser Pro Ser Trp
85 90 95

Ala Ser Leu Thr Ser Ser Arg Gly Arg Pro Arg Ala Ser Trp Arg Gly
100 105 110

Leu Gly Arg Cys Gly Pro Thr Pro Ser Thr Ser Ser Ala Ser Pro Cys
115 120 125

Ser Ser Thr Ala Ser Arg Thr Trp Arg Ala Leu Arg Arg Ala Thr Thr
130 135 140

Ala Ala Ser Trp Ser Ser Ala Ser Ser Leu Ala Ser Pro Thr Ala Trp
145 150 155 160

Trp Gly Pro Cys Ser Ser Arg Cys Ser Trp Pro Ser Trp Ala Pro Thr
165 170 175

Ser Ser Pro Val Pro Leu Ala Trp Cys Cys
180 185

<210> 3175
<211> 57
<212> PRT
<213> Homo sapiens

<400> 3175
Met Thr Leu Leu Leu Leu Ser Leu Thr Pro His Pro Asn Ala His Cys
1 5 10 15

Cys Cys Pro Lys Arg Thr Tyr Gln Cys Val Asp Val Ser Arg Lys Val
20 25 30

Pro Phe Leu Phe Gly Leu Val Val Leu Asp Cys Phe Leu Thr Ser Phe
35 40 45

Asn Phe Ser His Phe Leu Thr Asp Tyr
50 55

<210> 3176
<211> 23
<212> PRT
<213> Homo sapiens

<400> 3176
Glu Lys Ser Arg Lys Val Gly His Ser Trp Ile Tyr Phe Phe Phe Ser
1 5 10 15

Leu Ile Asn Ile Phe Pro Tyr
20

<210> 3177
<211> 453
<212> PRT
<213> Homo sapiens

<400> 3177
Met Ser Ile Val Thr Val Gln Leu Gly Gln Cys Gly Asn Gln Ile Gly
1 5 10 15

Phe Glu Val Phe Asp Ala Leu Leu Ser Asp Ser His Ser Ser Gln Gly
20 25 30

Leu Cys Ser Met Arg Glu Asn Glu Ala Tyr Gln Ala Ser Cys Lys Glu
35 40 45

Arg Phe Phe Ser Glu Glu Glu Asn Gly Val Pro Ile Ala Arg Ala Val
50 55 60

Leu Val Asp Met Glu Pro Lys Val Ile Asn Gln Thr Leu Ser Lys Ala
65 70 75 80

Ala Gln Ser Gly Gln Trp Lys Tyr Gly Gln His Ala Cys Phe Cys Gln

EP 2 368 569 A1

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                85                  90                  95

Lys Gln Gly Ser Gly Asn Asn Trp Ala Tyr Gly Tyr Ser Val His Gly
            100                 105                 110

Pro Arg His Glu Glu Ser Ile Met Asn Ile Ile Arg Lys Glu Val Glu
        115                 120                 125

Lys Cys Asp Ser Phe Ser Gly Phe Phe Ile Ile Met Ser Met Ala Gly
    130                 135                 140

Gly Thr Gly Ser Gly Leu Gly Ala Phe Val Thr Gln Asn Leu Glu Asp
145                 150                 155                 160

Gln Tyr Ser Asn Ser Leu Lys Met Asn Gln Ile Ile Trp Pro Tyr Gly
                165                 170                 175

Thr Gly Glu Val Ile Val Gln Asn Tyr Asn Ser Ile Leu Thr Leu Ser
            180                 185                 190

His Leu Tyr Arg Ser Ser Asp Ala Leu Leu Leu His Glu Asn Asp Ala
        195                 200                 205

Ile His Lys Ile Cys Ala Lys Leu Met Asn Ile Lys Gln Ile Ser Phe
    210                 215                 220

Ser Asp Ile Asn Gln Val Leu Ala His Gln Leu Gly Ser Val Phe Gln
225                 230                 235                 240

Pro Thr Tyr Ser Ala Glu Ser Ser Phe His Tyr Arg Arg Asn Pro Leu
                245                 250                 255

Gly Asp Leu Met Glu His Leu Val Pro His Pro Glu Phe Lys Met Leu
            260                 265                 270

Ser Val Arg Asn Ile Pro His Met Ser Glu Asn Ser Leu Ala Tyr Thr
        275                 280                 285

Thr Phe Thr Trp Ala Gly Leu Leu Lys His Leu Arg Gln Met Leu Ile
    290                 295                 300

Ser Asn Ala Lys Met Glu Glu Gly Ile Asp Arg His Val Trp Pro Pro
305                 310                 315                 320

Leu Ser Gly Leu Pro Pro Leu Ser Lys Met Ser Leu Asn Lys Asp Leu
                325                 330                 335

His Phe Asn Thr Ser Ile Ala Asn Leu Val Ile Leu Arg Gly Lys Asp
            340                 345                 350

Val Gln Ser Ala Asp Val Glu Gly Phe Lys Asp Pro Ala Leu Tyr Thr
        355                 360                 365

Ser Trp Leu Lys Pro Val Asn Ala Phe Asn Val Trp Lys Thr Gln Arg
    370                 375                 380

Ala Phe Ser Lys Tyr Glu Lys Ser Ala Val Leu Val Ser Asn Ser Gln
385                 390                 395                 400

Phe Leu Val Lys Pro Leu Asp Met Ile Val Gly Lys Ala Trp Asn Met
                405                 410                 415
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Phe Ala Ser Lys Ala Tyr Ile His Gln Tyr Thr Lys Phe Gly Ile Glu
420 425 430

Glu Glu Asp Phe Leu Asp Ser Phe Thr Ser Leu Glu Gln Val Val Ala
435 440 445

Ser Tyr Cys Asn Leu
450

<210> 3178
<211> 21
<212> PRT
<213> Homo sapiens

<400> 3178
Met Arg Ala Arg Pro Ser Pro Ser Pro Leu Arg Ser Trp Ala Cys Arg
1 5 10 15

Pro Pro Cys Cys Cys
20

<210> 3179
<211> 78
<212> PRT
<213> Homo sapiens

<400> 3179
Met Gly His Leu Ile Gln Arg Lys Lys Val His Val Phe Gly Asp Glu
1 5 10 15

Leu Ser Leu Val Thr Leu Phe Arg Cys Ile Gln Asn Met Pro Glu Thr
20 25 30

Leu Pro Asn Asn Ser Cys Tyr Ser Ala Gly Ile Ala Lys Leu Glu Glu
35 40 45

Gly Asp Glu Leu Gln Leu Ala Ile Pro Arg Glu Asn Ala Gln Ile Ser
50 55 60

Leu Asp Gly Asp Val Thr Phe Phe Gly Ala Leu Lys Leu Leu
65 70 75

<210> 3180
<211> 32
<212> PRT
<213> Homo sapiens

<400> 3180
Met Thr Gln Val Thr Ile Ser Lys Leu Gly Arg Leu Leu Leu Leu Ala
1 5 10 15

Leu Pro Leu Cys Pro Ile Ser Cys Gln Tyr Ser Gln Phe Ser Arg Glu
20 25 30

<210> 3181
<211> 35
<212> PRT
<213> Homo sapiens

<400> 3181
Met Asp His Phe Leu Val Phe Phe Phe Leu Ile Gly Ala Leu Asn Lys
1 5 10 15

Tyr Gly Thr Trp Thr Lys Arg Phe Ser Gly Ile Leu Trp Lys Leu Thr
20 25 30

Phe Leu Thr
35

<210> 3182
<211> 68
<212> PRT
<213> Homo sapiens

<400> 3182
Phe Phe Phe Phe Phe Phe Phe Lys Leu His Gly Thr Glu Phe Asn Val
1 5 10 15

Asn His Glu Met Arg Gln Lys Pro Pro Pro Gly Arg Trp Glu Asp Pro
20 25 30

Ala Pro Asn Gln Thr Leu Glu His Ala Ala Leu Asn Gln Thr Pro Gly
35 40 45

Arg Gly Cys Val Val Met His Arg Leu Arg Leu Arg Gly Glu Asp Gly
50 55 60

Lys Thr Gln Pro
65

<210> 3183
<211> 50
<212> PRT
<213> Homo sapiens

<400> 3183
Met Ala Val Ala Leu Glu Thr Val Leu Ile Ile Phe Ser Leu Phe Gly
1 5 10 15

Thr Thr Leu Thr Lys Leu Val Val Leu Leu Leu His Val Gln Lys Leu
20 25 30

Asp Ile Leu Tyr Met Gln Gln Phe Ser Tyr Ala Thr Met Arg Gln Glu
35 40 45

Glu His

50

<210> 3184
<211> 8
<212> PRT
<213> Homo sapiens

<400> 3184
Met Lys Leu Tyr Phe Leu Met Cys
1 5

<210> 3185
<211> 97
<212> PRT
<213> Homo sapiens

<400> 3185
Arg Gln Pro Cys Pro Gly Leu Trp Pro Pro Pro Phe Tyr Ser Pro Cys
1 5 10 15

Gly Leu Gly Leu Cys Ser Leu His Asp Arg Pro Ala Leu Val Val Gly
20 25 30

Ala His Arg Val Pro Thr Pro Gly Leu His Cys Gly Cys Leu Arg Val
35 40 45

Pro Ala Asp Asp Arg Leu Pro Pro Gly Ala Ala Pro Thr Leu Gln Arg
50 55 60

Gly Arg Glu Cys Glu Ala Gly Pro Cys Glu Ala Gln Gly Ala Asp Leu
65 70 75 80

Ser Gly Gln Gly Pro Ser Pro His Ser Ala Ala Leu Ala Leu Ser Ile
85 90 95

His

<210> 3186
<211> 310
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (127)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3186
Met Val Tyr Lys Thr Leu Phe Ala Leu Cys Ile Leu Thr Ala Gly Trp
1 5 10 15

Arg Val Gln Ser Leu Pro Thr Ser Ala Pro Leu Ser Val Ser Leu Pro
20 25 30

Thr Asn Ile Val Pro Pro Thr Thr Ile Trp Thr Ser Ser Pro Gln Asn
35 40 45

Thr Asp Ala Asp Thr Ala Ser Pro Ser Asn Gly Thr His Asn Asn Ser
50 55 60

Val Leu Pro Val Thr Ala Ser Ala Pro Thr Ser Leu Leu Pro Lys Asn
65 70 75 80

Ile Ser Ile Glu Ser Arg Glu Glu Glu Ile Thr Ser Pro Gly Ser Asn
85 90 95

Trp Glu Gly Thr Asn Thr Asp Pro Ser Pro Ser Gly Phe Ser Ser Thr
100 105 110

Ser Gly Gly Val His Leu Thr Thr Thr Leu Glu Glu His Ser Xaa Gly
115 120 125

Thr Pro Glu Ala Gly Val Ala Ala Thr Leu Ser Gln Ser Ala Ala Glu
130 135 140

Pro Pro Thr Leu Ile Ser Pro Gln Ala Pro Ala Ser Ser Pro Ser Ser
145 150 155 160

Leu Ser Thr Ser Pro Pro Glu Val Phe Ser Ala Ser Val Thr Thr Asn
165 170 175

His Ser Ser Thr Val Thr Ser Thr Gln Pro Thr Gly Ala Pro Thr Ala
180 185 190

Pro Glu Ser Pro Thr Glu Glu Ser Ser Ser Asp His Thr Pro Thr Ser
195 200 205

His Ala Thr Ala Glu Pro Val Pro Gln Glu Lys Thr Pro Pro Thr Thr
210 215 220

Val Ser Gly Lys Val Met Cys Glu Leu Ile Asp Met Glu Thr Thr Thr
225 230 235 240

Thr Phe Pro Arg Val Ile Met Gln Glu Val Glu His Ala Leu Ser Ser
245 250 255

Gly Ser Ile Ala Ala Ile Thr Val Thr Val Ile Ala Val Val Leu Leu
260 265 270

Val Phe Gly Val Ala Ala Tyr Leu Lys Ile Arg His Ser Ser Tyr Gly
275 280 285

Arg Leu Leu Asp Asp His Asp Tyr Gly Ser Trp Gly Asn Tyr Asn Asn
290 295 300

Pro Leu Tyr Asp Asp Ser
305 310

<210> 3187
<211> 64
<212> PRT
<213> Homo sapiens

<400> 3187
Met Glu Ser Gly Gln Val Ser Leu Phe Gly Leu Val Phe Ser Leu Met
1 5 10 15

Pro Cys Cys Gln His Ile Gln Lys Gly Ala Ala Cys Pro Lys Thr Val
20 25 30

Asn Leu Arg Arg Pro Gln Leu Ser Gly Leu Leu Ile Ser Trp Arg Phe
35 40 45

Leu Lys Cys Ile Leu Leu Asp Phe Asn Gly Trp Val Trp Lys Ser Pro
50 55 60

<210> 3188
<211> 16
<212> PRT
<213> Homo sapiens

<400> 3188
Met Ala Leu Ser Phe Ile Phe Pro Ser Asp Phe Cys Pro Ser Phe Leu
1 5 10 15

<210> 3189
<211> 16
<212> PRT
<213> Homo sapiens

<400> 3189
Met Val Val Leu Phe Leu Phe Pro Ile Thr Val Leu Ala Leu Lys Leu
1 5 10 15

<210> 3190
<211> 31
<212> PRT
<213> Homo sapiens

<400> 3190
Met Ser Ala Ser Leu Asn His Ile Lys Val Ser Ser Val Trp Leu Leu
1 5 10 15

Leu Leu Phe Glu Met Val Leu Cys Phe Gly Cys Gly Leu Lys Leu
20 25 30

<210> 3191

<211> 39
<212> PRT
<213> Homo sapiens

<400> 3191
Met Lys Glu Gln Leu Ala Gln Phe Leu Lys Val Thr Ser Ser Phe Arg
1 5 10 15

Leu Leu Leu Leu Leu Thr Trp Met Gly Leu Gly Ile Ala Pro Leu Thr
20 25 30

Leu Cys Tyr Thr Ala Ile Thr
35

<210> 3192
<211> 39
<212> PRT
<213> Homo sapiens

<400> 3192
Met Lys Glu Gln Leu Ala Gln Phe Leu Lys Val Thr Ser Ser Phe Arg
1 5 10 15

Leu Leu Leu Leu Leu Thr Trp Met Gly Leu Gly Ile Ala Pro Leu Thr
20 25 30

Leu Cys Tyr Thr Ala Ile Thr
35

<210> 3193
<211> 39
<212> PRT
<213> Homo sapiens

<400> 3193
Met Lys Glu Gln Leu Ala Gln Phe Leu Lys Val Thr Ser Ser Phe Arg
1 5 10 15

Leu Leu Leu Leu Leu Thr Trp Met Gly Leu Gly Ile Ala Pro Leu Thr
20 25 30

Leu Cys Tyr Thr Ala Ile Thr
35

<210> 3194
<211> 35
<212> PRT
<213> Homo sapiens

<400> 3194
Met Leu Arg Val Met Asn Leu Phe His Leu Leu Phe Glu Ile Ala Thr
1 5 10 15

Cys Leu Ile Cys Leu Ser Ile Ser Ser Lys Asn Ser Gly Glu Asn Ser
20 25 30

Met Ile Glu
35

<210> 3195
<211> 37
<212> PRT
<213> Homo sapiens

<400> 3195
Met Leu Asp Phe Leu Arg Ser Gln Leu Lys Leu Leu Ser Tyr Leu Leu
1 5 10 15

Leu Gly Phe Leu Leu Leu Arg Gln Arg Gly Ile Gly Arg Thr Ser Glu
20 25 30

Ile Phe Val Asn Ser
35

<210> 3196
<211> 23
<212> PRT
<213> Homo sapiens

<400> 3196
Met Ser Gln Ala Cys Leu Gln Leu Ala Met Leu Ser Pro Ser Pro Leu
1 5 10 15

Pro Gly Gly Thr Thr Ala Lys
20

<210> 3197
<211> 310
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (307)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3197
Met Met Phe Leu Ala Val Gly Ile Tyr Ala Leu Phe Val Ser Thr Asn
1 5 10 15

Tyr Trp Glu Arg Tyr Tyr Thr Leu Val Pro Ser Ala Val Ala Leu Gly
20 25 30

Met Ala Ile Val Pro Leu Trp Ala Ser Met Gly Asn Tyr Ile Thr Arg
35 40 45

Met Ala Gln Lys Tyr His Glu Tyr Ser His Tyr Lys Glu Gln Asp Gly
50 55 60

Gln Gly Met Lys Gln Arg Pro Pro Arg Gly Ser His Ala Pro Tyr Leu

65 70 75 80

Leu Val Phe Gln Ala Ile Phe Tyr Ser Phe Phe His Leu Ser Phe Ala
85 90 95

Cys Ala Gln Leu Pro Met Ile Tyr Phe Leu Asn His Tyr Leu Tyr Asp
100 105 110

Leu Asn His Thr Leu Tyr Asn Val Gln Ser Cys Gly Thr Asn Ser His
115 120 125

Gly Ile Leu Ser Gly Phe Asn Lys Thr Val Leu Arg Thr Leu Pro Arg
130 135 140

Ser Gly Asn Leu Ile Val Val Glu Ser Val Leu Met Ala Val Ala Phe
145 150 155 160

Leu Ala Met Leu Leu Val Leu Gly Leu Cys Gly Pro Leu Thr Gly Pro
165 170 175

Arg Arg Arg Ser Ile Cys Ala Ala Trp Ala Gly Ala Thr Ser Ser Ser
180 185 190

Cys Pro Ser Ser Thr Cys Val Thr Thr Ala Cys Ala Thr Ser Cys Leu
195 200 205

Ser Leu Ser Thr Ala Ala Ser Arg Cys Ser Leu Pro Ala Leu Val Ser
210 215 220

Pro Trp Ala Met Ala Cys Ala Arg Trp Gly Trp Ser Gly Trp Leu Thr
225 230 235 240

Ser Ser Trp Leu Thr Ala Trp Ala Pro Gln Pro Pro His Ser Trp Ala
245 250 255

Cys Trp Ala Cys Gly Cys His Ala Arg Cys Pro Trp Trp Pro Glu Gln
260 265 270

Gly Cys Thr Cys Cys Ser Pro Ser Ser Ser Phe Ser Gly Pro Leu Cys
275 280 285

Leu Gly Ser Cys Asn Thr Ala Gly Ser Ser Met Trp Gln Leu Pro Phe
290 295 300

Gly Val Xaa Ala Val Pro
305 310

<210> 3198
<211> 310
<212> PRT
<213> Homo sapiens

<400> 3198
Met Met Phe Leu Ala Val Gly Ile Tyr Ala Leu Phe Val Ser Thr Asn
1 5 10 15

Tyr Trp Glu Arg Tyr Tyr Thr Leu Val Pro Ser Ala Val Ala Leu Gly
20 25 30

```
Met Ala Ile Val Pro Leu Trp Ala Ser Met Gly Asn Tyr Ile Thr Arg
         35                  40                  45

Met Ala Gln Lys Tyr His Glu Tyr Ser His Tyr Lys Glu Gln Asp Gly
     50                  55                  60

Gln Gly Met Lys Gln Arg Pro Pro Arg Gly Ser His Ala Pro Tyr Leu
 65                  70                  75                  80

Leu Val Phe Gln Ala Ile Phe Tyr Ser Phe Phe His Leu Ser Phe Ala
                 85                  90                  95

Cys Ala Gln Leu Pro Met Ile Tyr Phe Leu Asn His Tyr Leu Tyr Asp
            100                 105                 110

Leu Asn His Thr Leu Tyr Asn Val Gln Ser Cys Gly Thr Asn Ser His
        115                 120                 125

Gly Ile Leu Ser Gly Phe Asn Lys Thr Val Leu Arg Thr Leu Pro Arg
    130                 135                 140

Ser Gly Asn Leu Ile Val Val Glu Ser Val Leu Met Ala Val Ala Phe
145                 150                 155                 160

Leu Ala Met Leu Leu Val Leu Gly Leu Cys Gly Pro Leu Thr Gly Pro
                165                 170                 175

Arg Arg Arg Ser Ile Cys Ala Ala Trp Ala Gly Ala Thr Ser Ser Ser
            180                 185                 190

Cys Pro Ser Ser Thr Cys Val Thr Thr Ala Cys Ala Thr Ser Cys Leu
        195                 200                 205

Ser Leu Ser Thr Ala Ala Ser Arg Cys Ser Leu Pro Ala Leu Val Ser
    210                 215                 220

Pro Trp Ala Met Ala Cys Ala Arg Trp Gly Trp Ser Gly Trp Leu Thr
225                 230                 235                 240

Ser Ser Trp Leu Thr Ala Trp Ala Pro Gln Pro Pro His Ser Trp Ala
                245                 250                 255

Cys Trp Ala Cys Gly Cys His Ala Arg Cys Pro Trp Trp Pro Glu Gln
            260                 265                 270

Gly Cys Thr Cys Cys Ser Pro Ser Ser Ser Phe Ser Gly Pro Leu Cys
        275                 280                 285

Leu Gly Ser Cys Asn Thr Ala Gly Ser Ser Met Trp Gln Leu Pro Phe
    290                 295                 300

Gly Val Trp Ala Val Pro
305                 310
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<210> 3199
<211> 370
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (370)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3199
Met Met Phe Leu Ala Val Gly Ile Tyr Ala Leu Phe Val Ser Thr Asn
1 5 10 15

Tyr Trp Glu Arg Tyr Tyr Thr Leu Val Pro Ser Ala Val Ala Leu Gly
20 25 30

Met Ala Ile Val Pro Leu Trp Ala Ser Met Gly Asn Tyr Ile Thr Arg
35 40 45

Met Ala Gln Lys Tyr His Glu Tyr Ser His Tyr Lys Glu Gln Asp Gly
50 55 60

Gln Gly Met Lys Gln Arg Pro Pro Arg Gly Ser His Ala Pro Tyr Leu
65 70 75 80

Leu Val Phe Gln Ala Ile Phe Tyr Ser Phe Phe His Leu Ser Phe Ala
85 90 95

Cys Ala Gln Leu Pro Met Ile Tyr Phe Leu Asn His Tyr Leu Tyr Asp
100 105 110

Leu Asn His Thr Leu Tyr Asn Val Gln Ser Cys Gly Thr Asn Ser His
115 120 125

Gly Ile Leu Ser Gly Phe Asn Lys Thr Val Leu Arg Thr Leu Pro Arg
130 135 140

Ser Gly Asn Leu Ile Val Val Glu Ser Val Leu Met Ala Val Ala Phe
145 150 155 160

Leu Ala Met Leu Leu Val Leu Gly Leu Cys Gly Ala Ala Tyr Arg Pro
165 170 175

Thr Glu Glu Ile Asp Leu Arg Ser Val Gly Trp Gly Asn Ile Phe Gln
180 185 190

Leu Pro Phe Lys His Val Arg Asp Tyr Arg Leu Arg His Leu Val Pro
195 200 205

Phe Phe Ile Tyr Ser Gly Phe Glu Val Leu Phe Ala Cys Thr Gly Ile
210 215 220

Ala Leu Gly Tyr Gly Val Cys Ser Val Gly Leu Glu Arg Leu Ala Tyr
225 230 235 240

Leu Leu Val Ala Tyr Ser Leu Gly Ala Ser Ala Ala Ser Leu Leu Gly
245 250 255

Leu Leu Gly Leu Trp Leu Pro Arg Pro Val Pro Leu Val Ala Gly Ala
260 265 270

Gly Val His Leu Leu Leu Thr Phe Ile Leu Phe Phe Trp Ala Pro Val
275 280 285

Pro Arg Val Leu Gln His Ser Trp Ile Leu Tyr Val Ala Ala Ala Leu

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    290                 295                 300

Trp Gly Val Gly Ser Ala Leu Asn Lys Thr Gly Leu Ser Thr Leu Leu
305                 310                 315                 320

Gly Ile Leu Tyr Glu Asp Lys Glu Arg Gln Asp Phe Ile Phe Thr Ile
                325                 330                 335

Tyr His Trp Trp Gln Ala Val Ala Ile Phe Thr Val Tyr Leu Gly Ser
            340                 345                 350

Ser Leu His Met Lys Ala Lys Leu Ala Val Leu Leu Val Thr Leu Val
        355                 360                 365

Ala Xaa
    370
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WO 2004/046320 PCT/US2003/036874

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<210> 3200
<211> 137
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3200
Met Val Ser Val Cys Phe Tyr Phe Ile Arg Asp Tyr Phe Trp Trp Leu
  1               5                  10                  15

Leu Thr Tyr Thr Phe Phe Ala Leu Met Leu Gln Phe Leu Val Met Leu
            20                  25                  30

Thr Lys Cys Gly Phe Ser Phe Leu Lys Ser Cys Leu Gly Phe Ile Val
        35                  40                  45

Phe Gly Phe Cys Glu Xaa Phe Ser His Lys Ile Trp Lys Asn Ser Ala
    50                  55                  60

Phe Ser Ser Ser Val Thr Ala Phe Cys Phe Cys Pro Pro Ser Phe Ala
65                  70                  75                  80

Ile Leu Ile Glu Arg Arg Pro Phe Tyr Ser Leu Ser Cys Leu Leu Thr
                85                  90                  95

Ser Phe Phe Cys Phe Pro Phe Leu Cys Leu Ser Val Leu Pro Ser Asp
            100                 105                 110

Tyr Phe Ile Arg Thr Ile Cys Gln Phe Pro Asn Ser Leu Phe Gly Phe
        115                 120                 125

Val Ser Ser Val Ile Arg Asn Ile Tyr
    130                 135


<210> 3201
<211> 10
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<212> PRT
<213> Homo sapiens

<400> 3201
Met Ile Gln Cys Cys Ile Met Ile Leu Leu
1 5 10

<210> 3202
<211> 39
<212> PRT
<213> Homo sapiens

<400> 3202
Met Met Gln Val Pro Asp Leu Glu Leu Gly Leu Leu Leu Ala Thr Phe
1 5 10 15

Leu Leu His Leu Leu Asp Ala Leu Pro Met Leu Leu Ser Leu Gln Ser
20 25 30

Cys Arg Glu Pro Thr Ser Ser
35

<210> 3203
<211> 50
<212> PRT
<213> Homo sapiens

<400> 3203
Met Phe Leu Ser Ser Asn Phe Pro Ile Phe Ser Ile Leu Phe Phe Ala
1 5 10 15

Phe Pro Tyr Phe Cys Leu Pro Val Phe His Phe Lys Leu Leu Ser Ser
20 25 30

Pro Asn Cys Phe Ile Leu Pro Leu Pro Ile Asn Leu Ser Ile Phe Val
35 40 45

Cys Val
50

<210> 3204
<211> 50
<212> PRT
<213> Homo sapiens

<400> 3204
Met Phe Leu Pro Ser Asn Phe Pro Ile Phe Ser Ile Leu Phe Phe Ala
1 5 10 15

Phe Pro Tyr Phe Cys Leu Pro Val Phe His Phe Lys Leu Leu Ser Ser
20 25 30

Pro Asn Cys Phe Ile Leu Pro Leu Pro Ile Asn Leu Ser Ile Phe Val
35 40 45

Cys Val
50

<210> 3205
<211> 32
<212> PRT
<213> Homo sapiens

<400> 3205
Met Ala Lys Ile His Val Met Ser Ile Asn Leu Tyr Phe Leu Ser Pro
1 5 10 15

Ala Leu Leu Ser Met Ala Met Gly Leu Thr Pro Glu Gly Cys Lys Ser
20 25 30

<210> 3206
<211> 55
<212> PRT
<213> Homo sapiens

<400> 3206
Met His Ala His Ile Trp Pro Tyr Leu Tyr Met Cys Ala His Ile His
1 5 10 15

Met His Leu Cys Thr Tyr Met Pro Ile His Thr His Thr His Thr His
20 25 30

Ala His Thr His Gln Pro Gln Ser His Ser Phe Cys Gly Gly Thr Ser
35 40 45

Gly Leu Arg Ala Ala Pro Gly
50 55

<210> 3207
<211> 23
<212> PRT
<213> Homo sapiens

<400> 3207
Met Ala Pro Ile Met Arg Leu Leu Glu Ala Ile Phe Met Thr Ala Ile
1 5 10 15

Val Pro Ser Val Leu Gln Leu
20

<210> 3208
<211> 49
<212> PRT
<213> Homo sapiens

<400> 3208
His Leu Pro Cys Lys Leu Val Phe Phe Leu Ser Asp Lys Phe Trp Tyr
1 5 10 15

Cys Arg Leu Ser Pro Asn His Lys Val Leu His Tyr Gly Asp Leu Glu
20 25 30

Glu Ser Pro Gln Gly Glu Val Pro His Asp Ser Leu Gln Asp Lys Arg
35 40 45

Lys

<210> 3209
<211> 29
<212> PRT
<213> Homo sapiens

<400> 3209
Val Ile Val Ile Val Gln Leu Cys Ile Phe Tyr Ala Ser Tyr Ser Ala
1 5 10 15

Trp His Ile Val Gly Ala Gln Leu Thr Leu Leu Lys Glu
20 25

<210> 3210
<211> 126
<212> PRT
<213> Homo sapiens

<400> 3210
Met Gly Ile Ile Ile Gly Cys Phe Pro Thr Leu Ala Phe Lys Ile Pro
1 5 10 15

Ile Leu Leu Ser Phe Trp Phe Ile Cys Ser Lys Ala His Ile Glu Glu
20 25 30

Glu Ile Ser Gly Phe Ser Met Leu Phe Tyr Tyr Leu Phe Ser Leu Leu
35 40 45

Lys Leu Ile Gln Thr Tyr Leu Leu Thr Pro Phe Ser Leu Leu Thr Phe
50 55 60

Thr Thr Asn Thr Ser Lys Ile Ile Phe Leu Ile Val Lys Arg Phe Cys
65 70 75 80

Gln Asp Phe His Cys Asn Gly Cys Tyr Arg Asp Gly Pro Ser Ser Ser
85 90 95

Ser Pro Val Val Ser Ser Asn Tyr Lys Met Phe Lys Leu Ser Glu Asn
100 105 110

Leu Lys Ser His His Cys Ser Gln Ser Ala Tyr Thr Ser Ser
115 120 125

<210> 3211
<211> 52
<212> PRT
<213> Homo sapiens

<400> 3211
Met His Thr Ala Cys Leu Cys Asn Ala Ile Ile Ala Leu Leu Lys Val
1 5 10 15

Pro Leu Ser Phe Gln Arg Tyr Phe Phe Pro Glu Thr Thr Val Tyr Gln
20 25 30

His Gln Ala Cys Ser Val Thr Ile Ala Pro Glu Ser Cys Arg Ala His
35 40 45

Cys Cys Pro Glu
50

<210> 3212
<211> 50
<212> PRT
<213> Homo sapiens

<400> 3212
Met Val Ser Cys Leu Leu Arg Thr Ala Arg Gln His Cys Val Cys Glu
1 5 10 15

Asp Val Leu His Leu Leu Leu Cys Ala Ser Gln Leu Leu Leu Leu Lys
20 25 30

Gln Leu Ser Leu Leu Phe Gly Phe Leu Arg Leu Leu Ala Ser Glu Arg
35 40 45

His Leu
50

<210> 3213
<211> 37
<212> PRT
<213> Homo sapiens

<400> 3213
Met Lys Arg Arg Glu Arg Arg Trp Lys Trp Phe Phe Phe Phe Phe Phe
1 5 10 15

Tyr Phe Leu Ser Phe Phe Phe Phe Phe Phe Leu Val Asn Ser Arg Phe
20 25 30

Ser Ser Ser Lys Phe
35

<210> 3214
<211> 34
<212> PRT
<213> Homo sapiens

<400> 3214
Met Lys Asn Ile Ile Ala Ile Ser Pro Lys Phe Leu Ser Trp Leu Gly
1 5 10 15

Trp Gly Arg Phe Leu Leu Trp Thr Ile Ser Gly Thr Tyr Ser Met Lys
20 25 30

Ser Arg

<210> 3215
<211> 37
<212> PRT
<213> Homo sapiens

<400> 3215
Met Leu Cys Ser Leu Leu Leu Leu Phe Leu Leu Leu Phe Val Ile Pro
1 5 10 15

Lys Ser Pro Trp Gln His Thr Ser Gly Trp Phe Ala Thr Cys Ser Glu
20 25 30

Arg Leu Ile Lys Asn
35

<210> 3216
<211> 75
<212> PRT
<213> Homo sapiens

<400> 3216
Met Gln Met Leu Arg Lys Leu Phe Thr Ala Ile Arg Ala Leu Phe Leu
1 5 10 15

Ala Val Cys Val Leu Lys Val Ile Val Ser Leu Val Ser Leu Gly Val
20 25 30

Gly Leu Arg Asn Leu Cys Gly Gln Ser Ser Gln Pro Leu Asn Glu Glu
35 40 45

Gly Ser Glu Lys Arg Leu Leu Gly Glu Asn Ser Val Pro Pro Ser Pro
50 55 60

Ser Arg Glu Gln Thr Ser Thr Ala Ile Val Leu
65 70 75

<210> 3217
<211> 35
<212> PRT
<213> Homo sapiens

<400> 3217
Met Leu His Leu Cys Ser Leu Leu Gln Gly Val Leu Gly Lys Cys Arg
1 5 10 15

Tyr Val Tyr Tyr Gly Lys Asn Ser Glu Gly Asn Arg Phe Ile Arg Asp
20 25 30

Asp Gln Leu
35

<210> 3218
<211> 25
<212> PRT
<213> Homo sapiens

<400> 3218
Phe Gln Cys Pro Cys Val His Val Ser Ala Leu Gln Glu Leu Ala Ala
1 5 10 15

Gly Val Leu Gly Gly Pro Arg Pro Val
20 25

<210> 3219
<211> 9
<212> PRT
<213> Homo sapiens

<400> 3219
Met His Ser Cys Arg Asn His Asp Arg
1 5

<210> 3220
<211> 37
<212> PRT
<213> Homo sapiens

<400> 3220
Met Arg Phe His Ile Leu Leu Ile Val Leu Leu Leu Arg Met Lys Asn
1 5 10 15

Gln Gln Gln Ile Leu Cys Trp Thr Cys Gly Leu Val Lys Leu Leu Phe
20 25 30

Leu Val Leu Pro Val
35

<210> 3221
<211> 36
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3221
Met Arg Gly Leu Phe Phe Phe Ser Leu Leu Asp Lys Val Leu Ala Xaa
1 5 10 15

Cys Asn Cys Leu Leu Ser Tyr Ser Thr Ala Glu Met Lys Gln Ser Phe
20 25 30

Xaa Cys Thr Asp
35

<210> 3222
<211> 31
<212> PRT
<213> Homo sapiens

<400> 3222
Met Asp Leu Gln Val Cys Met Gly Ser Lys Tyr Trp Phe Met Val Leu
1 5 10 15

Phe Leu Glu Leu Leu Val Gly Leu Tyr Phe Gly Val Val Phe Gly
20 25 30

<210> 3223
<211> 85
<212> PRT
<213> Homo sapiens

<400> 3223
Met Pro Arg Ser Gly Pro Leu Ser Ile Pro Trp Pro Leu Trp Leu Pro
1 5 10 15

Leu Gly Tyr Val Val Cys Val Arg Glu Trp Cys Ala Gly Ala Val Pro
20 25 30

Tyr Ala Pro Cys Val Leu Cys Val Ser Arg His Gly Ser Leu Arg Pro
35 40 45

Met Cys Ala Val Cys Val Leu Pro Val Tyr Val Ala Ser Ser Asp Ala
50 55 60

Asp Lys Val Gly Asn Asn Pro Cys Gln Ser Gly Leu Gly Pro Asp Phe
65 70 75 80

Val Leu Phe Leu Thr
85

<210> 3224
<211> 207
<212> PRT
<213> Homo sapiens

PCT/US2003/036459

<400> 3224
Met Ala Phe Leu Arg Lys Val Tyr Ser Ile Leu Ser Leu Gln Val Leu
1 5 10 15

Leu Thr Thr Val Thr Ser Thr Val Phe Leu Tyr Phe Glu Ser Val Arg
20 25 30

Thr Phe Val His Glu Ser Pro Ala Leu Ile Leu Leu Phe Ala Leu Gly
35 40 45

Ser Leu Gly Leu Ile Phe Ala Leu Ile Leu Asn Arg His Lys Tyr Pro
50 55 60

Leu Asn Leu Tyr Leu Leu Phe Gly Phe Thr Leu Leu Glu Ala Leu Thr
65 70 75 80

Val Ala Val Val Val Thr Phe Tyr Asp Val Tyr Ile Ile Leu Gln Ala
85 90 95

Phe Ile Leu Thr Thr Thr Val Phe Phe Gly Leu Thr Val Tyr Thr Leu
100 105 110

Gln Ser Lys Lys Asp Phe Ser Lys Phe Gly Ala Gly Leu Phe Ala Leu
115 120 125

Leu Trp Ile Leu Cys Leu Ser Gly Phe Leu Lys Phe Phe Phe Tyr Ser
130 135 140

Glu Ile Met Glu Leu Val Leu Ala Ala Ala Gly Ala Leu Leu Phe Cys
145 150 155 160

Gly Phe Ile Ile Tyr Asp Thr His Ser Leu Met His Lys Leu Ser Pro
165 170 175

Glu Glu Tyr Val Leu Ala Ala Ile Ser Leu Tyr Leu Asp Ile Ile Asn
180 185 190

Leu Phe Leu His Leu Leu Arg Phe Leu Glu Ala Val Asn Lys Lys
195 200 205

<210> 3225
<211> 33
<212> PRT
<213> Homo sapiens

<400> 3225
Met Arg Tyr Leu Ile Phe Leu Leu Leu His Leu Ser Phe Ser Trp Leu
1 5 10 15

Gln Lys Ile Met Ala Phe Thr Val Phe Leu Phe Ser Phe Met Ser Ser
20 25 30

Phe

<210> 3226

<211> 34
<212> PRT
<213> Homo sapiens

<400> 3226
Met Trp Pro Ile Ala Ser Leu Thr Tyr Met Gly Lys Pro Leu Ala Leu
1 5 10 15

Cys Ser Pro Ala Phe Leu Leu Cys Leu Val His Ala Val Ser Ser Gln
20 25 30

Gln Pro

<210> 3227
<211> 31
<212> PRT
<213> Homo sapiens

<400> 3227
Met Lys Leu Phe Gln Tyr Ile Gln Tyr Thr Leu Ser Leu Met Leu Leu
1 5 10 15

Leu Leu Thr Val Ile Ser Phe Phe Phe Ser Phe Leu Tyr Leu His
20 25 30

<210> 3228
<211> 31
<212> PRT
<213> Homo sapiens

<400> 3228
Met Lys Leu Phe Gln Tyr Ile Gln Tyr Thr Leu Ser Leu Met Leu Leu
1 5 10 15

Leu Leu Thr Val Ile Ser Phe Phe Phe Ser Phe Leu Tyr Leu His
20 25 30

<210> 3229
<211> 33
<212> PRT
<213> Homo sapiens

<400> 3229
Met Tyr Val Val Thr Val Tyr Met Cys Met Ser Val Val Tyr Ala Cys
1 5 10 15

Val Ser Val Cys Leu Tyr Val Cys Thr Thr Lys Glu Ala Ala Glu Thr
20 25 30

Leu

<210> 3230
<211> 55
<212> PRT
<213> Homo sapiens

<400> 3230
Glu Ile Leu His Arg Phe Leu Val Leu Phe Cys Ser Phe Phe Val Phe
1 5 10 15

Cys Cys Phe Val Ile Tyr Leu Tyr Thr Tyr Lys Ile Leu Leu Lys Ile
20 25 30

Lys Lys Lys Lys Lys Ser Arg Ser Arg Ile His Trp Ser Arg Phe Ser
35 40 45

Tyr Asn Val Leu Lys Thr Lys
50 55

<210> 3231
<211> 75
<212> PRT
<213> Homo sapiens

<400> 3231
Met Gly Ser Ser Gly Leu His Thr Ser Thr Ile Ala Cys Trp Val Asp
1 5 10 15

Leu Asp Val Cys Leu Leu Tyr Gly Asn Phe Gly Gly Lys Asn Pro Lys
20 25 30

His Lys Leu Trp Val Glu Ile Leu Thr Val Ser Leu Val Pro Trp Tyr
35 40 45

Ser Pro Cys Leu Ile Cys Thr Phe His Arg Gly Cys Phe Cys Ile Ala
50 55 60

Tyr Thr Ala Leu Ala Gln Glu Ile Val Ala Leu
65 70 75

<210> 3232
<211> 6
<212> PRT
<213> Homo sapiens

<400> 3232
Leu Lys Gly Ile Tyr Leu
1 5

<210> 3233
<211> 12
<212> PRT
<213> Homo sapiens

<400> 3233
His Glu Thr Ile Val Thr Trp Arg Pro Gln Leu Leu

```
  1               5                   10


<210> 3234
<211> 59
<212> PRT
<213> Homo sapiens

<400> 3234
Met Ala Thr Leu Leu Leu Cys Pro His Val Ala Phe Pro Leu Tyr Val
  1               5                   10                  15

Arg Ala Pro Ala Thr Ser Ile Leu Arg Gly His Gln Ser Tyr Trp Ile
             20                  25                  30

Arg Val Pro Pro Gln Gln Leu His Val Asn Ile Ile Ser Leu Lys Thr
         35                  40                  45

Leu Pro Pro Ala Gly His Gly Ser Ser Arg Leu
     50                  55



<210> 3235
<211> 24
<212> PRT
<213> Homo sapiens

<400> 3235
Met Phe Asp Leu Leu Phe Ile Ser Thr Phe Ile Leu Ile Phe Leu Ala
  1               5                   10                  15

Ser Leu Asp Leu Glu Val Asn Tyr
             20



<210> 3236
<211> 38
<212> PRT
<213> Homo sapiens

<400> 3236
Met Val Phe Ile Leu Thr Ile Ser Tyr Leu Leu Lys Gly Val Met Val
  1               5                   10                  15

Ile Thr Lys Ala Phe Arg Met Gln Phe Leu Ile Cys Cys Gly His Asp
             20                  25                  30

His Lys Lys Ile Ser Gln
         35



<210> 3237
<211> 32
<212> PRT
<213> Homo sapiens

<400> 3237
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```
Met Ser Met Glu Cys Phe Ser Ile Cys Tyr Val Ile Ser Asp Phe Phe
  1               5                  10                  15

Val Gln Cys Phe Val Thr Phe Ile Val Glu Ile Leu Tyr Leu Pro Gly
             20                  25                  30
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<210> 3238
<211> 79
<212> PRT
<213> Homo sapiens

<400> 3238
Met Asp Asp Phe Ile Ser Ile Ser Leu Leu Ser Leu Ala Met Leu Val
  1               5                  10                  15

Gly Cys Tyr Val Ala Gly Ile Ile Pro Leu Ala Val Asn Phe Ser Glu
             20                  25                  30

Glu Arg Leu Lys Leu Val Thr Val Leu Gly Ala Gly Leu Leu Cys Gly
         35                  40                  45

Leu Leu Trp Gln Ser Ser Cys Leu Lys Glu Tyr Met Pro Phe Met Lys
     50                  55                  60

Ile Phe Leu Arg Glu Asn Thr Thr Lys Gln Val Lys His Ile Met
 65                  70                  75
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<210> 3239
<211> 55
<212> PRT
<213> Homo sapiens

<400> 3239
Met Thr Arg Leu Ser Phe Leu Gly Leu Phe Leu Leu Arg Pro Ala Pro
  1               5                  10                  15

Ser Trp Ala His Leu Arg Phe Thr Glu Val Ser Gly Gly Pro Lys Ser
             20                  25                  30

Leu Leu Val Phe Asn Phe Phe Leu Thr Ile His Phe Cys Gly Gln Phe
         35                  40                  45

Gln Gln His Cys Pro Tyr Phe
     50                  55
```

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<210> 3240
<211> 4
<212> PRT
<213> Homo sapiens

<400> 3240
Met Gln Ser Thr
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1

<210> 3241
<211> 30
<212> PRT
<213> Homo sapiens

<400> 3241
Met Tyr Ile Arg Leu Phe Leu Ile Phe Cys Tyr Leu Tyr Ala His Cys
1 5 10 15

Ser Glu His Ser Leu Tyr Ile Cys Pro Cys Ser Val Val Ser
20 25 30

<210> 3242
<211> 20
<212> PRT
<213> Homo sapiens

<400> 3242
Met Phe Leu Ile Phe Tyr Leu Ala Lys Leu Asp Asn Leu Ser Leu Gly
1 5 10 15

Lys Ile Lys Asn
20

<210> 3243
<211> 59
<212> PRT
<213> Homo sapiens

<400> 3243
Ser Thr Leu Phe Ser Ile Leu Leu Ser Arg Leu Trp Gly Ser Phe Cys
1 5 10 15

Gln Gly Gln Ala Thr Arg Lys Val Glu Val Glu Ile Thr Trp Tyr Val
20 25 30

Ser Leu Trp Val Pro Gln Leu Glu Leu Pro Gln Leu Arg Lys Lys Met
35 40 45

Arg His Asn Asp Leu Glu Cys Asn Trp Ser Lys
50 55

<210> 3244
<211> 30
<212> PRT
<213> Homo sapiens

<400> 3244
Met Leu Ala Leu Asn Ile Phe Phe Leu Ser Leu Thr Ser Ala Ile Asn
1 5 10 15

Ser Thr Ile Gly Leu Gln Ile Gln Phe Thr Leu Gly Leu Asn
20 25 30

<210> 3245
<211> 34
<212> PRT
<213> Homo sapiens

<400> 3245
Met Glu Ser Ile Tyr Cys Arg Thr Thr Leu Val Leu Cys Leu Leu Ser
1 5 10 15

Leu Pro Ser Ala Leu Gln Leu Ser Pro Ser Leu Ala Ala Ser Ser Leu
20 25 30

Cys Ser

<210> 3246
<211> 44
<212> PRT
<213> Homo sapiens

<400> 3246
Met Thr Arg His Leu Leu Ile Ile Phe His Asp Cys Phe Leu Phe Ser
1 5 10 15

His Cys Val Gly Phe Val Asn Leu Tyr Ile Thr Gly Asn Lys Ile Leu
20 25 30

Cys Lys Ile Tyr Trp Gly Lys Ser Ile Trp Ser Ala
35 40

<210> 3247
<211> 16
<212> PRT
<213> Homo sapiens

<400> 3247
Met Leu Gln Arg Ile Val Leu Ala Cys Cys Trp Pro Ala Ala Ser Gln
1 5 10 15

<210> 3248
<211> 68
<212> PRT
<213> Homo sapiens

<400> 3248
Met Asp Phe His Phe Leu Val Val Phe Phe Phe Ser Tyr His Phe Pro
1 5 10 15

Phe Leu Phe Leu His Val Gly Asn Leu Ser Ser Ala Ala Phe Leu Cys
20 25 30

Gln Leu Lys Gly Lys Ser His Leu Asn Ala His Gln Glu Asn Thr Leu
35 40 45

Trp Ser Ala Ile Gln Ser Phe Ile Met Tyr Pro Leu Thr Val Met Pro
50 55 60

Ala Arg Arg Asp
65

<210> 3249
<211> 38
<212> PRT
<213> Homo sapiens

<400> 3249
Met Lys Lys Met Ser Gln Arg Ser Gly Thr Leu Trp Leu Ala Leu Leu
1 5 10 15

Leu His Ser Val Val Thr Thr Gly Val Ile Gly Asp Ile Met Trp Ala
20 25 30

Lys Asn Ile Ser Gly Leu
35

<210> 3250
<211> 29
<212> PRT
<213> Homo sapiens

<400> 3250
Met Leu Ile Trp Gly Ser His Leu Leu Pro Leu Gly Gln Ser Thr Ile
1 5 10 15

Lys Leu Leu Tyr Leu Pro Trp Leu Leu Asp His Val Cys
20 25

<210> 3251
<211> 10
<212> PRT
<213> Homo sapiens

<400> 3251
Met Leu Asn Cys Asp His Phe Leu Ala Leu
1 5 10

<210> 3252
<211> 31
<212> PRT
<213> Homo sapiens

<400> 3252
Met Gly Ile Asn Thr Arg Glu Leu Phe Leu Asn Phe Thr Ile Val Leu
1 5 10 15

Ile Thr Val Ile Leu Met Trp Leu Leu Val Arg Ser Tyr Gln Tyr
20 25 30

<210> 3253
<211> 36
<212> PRT
<213> Homo sapiens

<400> 3253
Met Lys Thr Thr Ser Phe Tyr Cys Ile Phe Thr Arg Val His Ser Gly
1 5 10 15

Arg Met Leu Ile Ala Gly Ser Val Gln Ala Thr Asp Met Leu Leu Leu
20 25 30

Val Ile Gln Tyr
35

<210> 3254
<211> 42
<212> PRT
<213> Homo sapiens

<400> 3254
Met Val Met Phe Val Leu Cys Leu Asn Tyr Trp Asp Leu Val Leu Thr
1 5 10 15

Ile Ser Leu Lys Lys Thr Ala Phe Cys His Phe Lys Leu Thr Thr Ser
20 25 30

Gly Arg Trp Arg Ile Arg Ser Ala Ser Gln
35 40

<210> 3255
<211> 23
<212> PRT
<213> Homo sapiens

<400> 3255
Leu Pro Leu Ser Leu Phe Ser Val Leu Leu Thr Leu Leu Phe Leu Val
1 5 10 15

Val Phe Lys Lys Ile Ala Thr
20

<210> 3256
<211> 14
<212> PRT

<213> Homo sapiens

<400> 3256
Met Leu Leu Ile Trp Val Phe Leu Pro Val Leu Thr Thr Asp
1 5 10

<210> 3257
<211> 118
<212> PRT
<213> Homo sapiens

<220>
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<222> (109)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (115)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3257
Met Ala His Gly Leu Tyr Ser Ile Leu Ile Gly Leu Gly Leu Leu Thr
1 5 10 15

Gly Leu Leu Leu Leu His Asn Trp Ser Pro Cys Phe Gln Phe Leu Pro
20 25 30

Ser Ile Ser Ser Asn Leu Thr Pro Lys Val Ile Leu Ser Ser Leu Lys
35 40 45

Lys Lys Lys Lys Asn Ser Arg Gly Gly Pro Val Pro Asn Ser Pro Tyr
50 55 60

Ser Glu Ser Tyr Tyr Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp
65 70 75 80

Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala Ala His Pro
85 90 95

Pro Phe Ala Ser Trp Arg Asn Ser Glu Glu Ala Arg Xaa Asp Arg Pro
100 105 110

Ser Gln Xaa Leu Arg Thr
115

<210> 3258
<211> 35
<212> PRT
<213> Homo sapiens

<400> 3258
Pro Leu Glu Leu Thr Ser Trp Thr Leu Leu Leu Tyr Cys Leu Asn Cys
1 5 10 15

Ser Ala Leu Tyr Phe Ala Ser Val Cys Glu Phe Cys Cys Phe Trp Gly
20 25 30

Ile Ser Leu
35

<210> 3259
<211> 1
<212> PRT
<213> Homo sapiens

<400> 3259
Met
1

<210> 3260
<211> 23
<212> PRT
<213> Homo sapiens

<400> 3260
Met Ile Leu Leu Ile Ile Pro Ser Phe Arg Leu Ser Pro Phe Ser Ser
1 5 10 15

Ser Thr Ile Lys Glu Pro Leu
20

<210> 3261
<211> 113
<212> PRT
<213> Homo sapiens

<400> 3261
Met Ser Phe Cys Phe Gln Leu Leu Leu Gly Val Ala Met Ser Gln Pro
1 5 10 15

Gln Ser Leu Ile Ser Pro Val Ser Ile Thr Asn Cys Leu His Leu Lys
20 25 30

Ala Phe Leu Tyr Leu Leu Ile Phe Pro Gln Ala Phe Pro Phe Leu Ser
35 40 45

Cys Ile Phe Pro Leu Phe Trp Gln Thr Cys Met Gly Lys Asp Val Thr
50 55 60

Leu His Val Ser Ala Ser Asn Pro Ala Met Leu Leu Tyr Gln Lys Phe
65 70 75 80

Gly Phe Lys Thr Glu Glu Tyr Val Leu Asp Phe Tyr Asp Lys Tyr Tyr
85 90 95

Pro Leu Glu Ser Thr Glu Cys Lys His Ala Phe Phe Leu Arg Leu Arg
100 105 110

Arg

<210> 3262
<211> 42
<212> PRT
<213> Homo sapiens

<400> 3262
Met Ser Asn Tyr Thr Ile Leu Gly Gln Tyr Cys Val Phe Leu Val Leu
1 5 10 15

Cys Phe Leu Arg Ser Pro Thr Tyr Trp Asn Phe Asp Tyr Leu Asp Ile
20 25 30

Phe Val Phe Lys Arg Gly Gly Glu Phe Ala
35 40

<210> 3263
<211> 10
<212> PRT
<213> Homo sapiens

<400> 3263
Glu Phe Thr Phe Pro Cys Ala Gly Leu Thr
1 5 10

<210> 3264
<211> 23
<212> PRT
<213> Homo sapiens

<400> 3264
Met Ser Val Leu Leu Leu Ser Ser Ser Cys Gly Ala Ala Phe Ala Val
1 5 10 15

Leu Cys Pro Pro His Cys Glu
20

<210> 3265
<211> 13
<212> PRT
<213> Homo sapiens

<400> 3265
Met Gly Cys Phe Gly Leu Trp Ala Pro Ser Phe Pro Trp
1 5 10

<210> 3266
<211> 86
<212> PRT
<213> Homo sapiens

<400> 3266

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Met Leu Met Leu Leu Thr Leu Phe Ser Ser Leu Gly Met Phe Gly Thr
 1               5                  10                  15

Gly Gly Leu Gly Gly Arg Val Phe Cys Pro His Thr His Thr Asp Ser
            20                  25                  30

Glu Tyr Leu Ile His Val Val Asp Ser Pro Ile Thr Val Gln Trp Gly
        35                  40                  45

Arg Gly Pro Arg Phe Phe Pro Phe Leu Ser Pro Phe Ile Ser Cys Gly
    50                  55                  60

Gln Arg Leu Gln Pro Thr Ile Ala Leu Arg Val Pro Ser Ser Ala Phe
65                  70                  75                  80

Ser Lys Tyr Gly Leu Thr
                85
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US 2003/0224454 A1

<210> 3267
<211> 35
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3267
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Met Phe Val Tyr Cys Pro His Leu Xaa Leu Ile Tyr Ser Gly Ile Leu
 1               5                  10                  15

Leu Leu Leu Glu His Ile Val Tyr Ser Cys Asn Asn Tyr Phe Asn Ile
            20                  25                  30

Phe Ala Tyr
        35
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<210> 3268
<211> 17
<212> PRT
<213> Homo sapiens

<400> 3268
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Arg Gly Arg Pro Gly Ala Leu Pro Ser Cys Leu Phe Ser Val Phe Pro
 1               5                  10                  15

Leu
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<210> 3269
<211> 25
<212> PRT
<213> Homo sapiens

<400> 3269
Met Gln Val Leu Leu Leu Leu Val Gly Phe Phe Gln Met Glu Leu Ser
1 5 10 15

Leu Phe Ile Leu Lys Asn Met Lys Ile
20 25

<210> 3270
<211> 18
<212> PRT
<213> Homo sapiens

<400> 3270
Met Thr Asn Leu Leu Phe Ala Tyr Ser Ser Ile Leu Asn Lys Ser Leu
1 5 10 15

Lys Leu

<210> 3271
<211> 118
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3271
Met Gly Leu Val Ile Cys Ser Phe Leu Ala Leu Lys Ile Val Val Ser
1 5 10 15

Lys Arg Asp His Gly Arg Asn His Cys Asn Gly Ser Asn Ser Asn Thr
20 25 30

Cys Xaa Leu Tyr Cys Ala Leu Gly Leu Pro Gly Val Ser Lys Tyr Ile
35 40 45

Ser Ile Phe Xaa Met Cys Arg Thr Arg Tyr Leu Gly Thr Cys His Thr
50 55 60

Pro Leu Ser Arg Tyr Val Leu Ala Ser Leu Glu Leu Lys Gly Leu Glu
65 70 75 80

Leu Arg Thr Cys Ser Leu Phe Phe Ile His Met Ser Leu Val Gly Leu
85 90 95

His Pro Asp His Thr Met Thr Ser Tyr Arg Ala Arg Glu Asn Asn Ile
100 105 110

Ile Ile Ser Ser Phe Ala

115

<210> 3272
<211> 14
<212> PRT
<213> Homo sapiens

<400> 3272
Leu Thr Trp Leu Leu Leu Pro His Arg Ala Ala Arg Ser Gln
1 5 10

<210> 3273
<211> 380
<212> PRT
<213> Homo sapiens

<400> 3273
Met Arg Ile Ser Pro Trp Trp Tyr Phe Ala Met Ile Ser Val Ser Gly
1 5 10 15

Val Phe Ser Val Thr Phe Ser Val Ile Phe Ala Tyr Val Ala Asp Val
20 25 30

Thr Gln Glu His Glu Arg Ser Thr Ala Tyr Gly Trp Val Ser Ala Thr
35 40 45

Phe Ala Ala Ser Leu Val Ser Ser Pro Ala Ile Gly Ala Tyr Leu Ser
50 55 60

Ala Ser Tyr Gly Asp Ser Leu Val Val Leu Val Ala Thr Val Val Ala
65 70 75 80

Leu Leu Asp Ile Cys Phe Ile Leu Val Ala Val Pro Glu Ser Leu Pro
85 90 95

Glu Lys Met Arg Pro Val Ser Trp Gly Ala Gln Ile Ser Trp Lys Gln
100 105 110

Ala Asp Pro Phe Ala Ser Leu Lys Lys Val Gly Lys Asp Ser Thr Val
115 120 125

Leu Leu Ile Cys Ile Thr Val Phe Leu Ser Tyr Leu Pro Glu Ala Gly
130 135 140

Gln Tyr Ser Ser Phe Phe Leu Tyr Leu Arg Gln Val Ile Gly Phe Gly
145 150 155 160

Ser Val Lys Ile Ala Ala Phe Ile Ala Met Val Gly Ile Leu Ser Ile
165 170 175

Val Ala Gln Thr Ala Phe Leu Ser Ile Leu Met Arg Ser Leu Gly Asn
180 185 190

Lys Asn Thr Val Leu Leu Gly Leu Gly Phe Gln Met Leu Gln Leu Ala
195 200 205

Trp Tyr Gly Phe Gly Ser Gln Ala Trp Met Met Trp Ala Ala Gly Thr

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    210                 215                 220

Val Ala Ala Met Ser Ser Ile Thr Phe Pro Ala Ile Ser Ala Leu Val
225                 230                 235                 240

Ser Arg Asn Ala Glu Ser Asp Gln Gln Gly Val Ala Gln Gly Ile Ile
                245                 250                 255

Thr Gly Ile Arg Gly Leu Cys Asn Gly Leu Gly Pro Ala Leu Tyr Gly
            260                 265                 270

Phe Ile Phe Tyr Met Phe His Val Glu Leu Thr Glu Leu Gly Pro Lys
        275                 280                 285

Leu Asn Ser Asn Asn Val Pro Leu Gln Gly Ala Val Ile Pro Gly Pro
    290                 295                 300

Pro Phe Leu Phe Gly Ala Cys Ile Val Leu Met Ser Phe Leu Val Ala
305                 310                 315                 320

Leu Phe Ile Pro Glu Tyr Ser Lys Ala Ser Gly Val Gln Lys His Ser
                325                 330                 335

Asn Ser Ser Ser Gly Ser Leu Thr Asn Thr Pro Glu Arg Gly Ser Asp
            340                 345                 350

Glu Asp Ile Glu Pro Leu Leu Gln Asp Ser Ser Ile Trp Glu Leu Ser
        355                 360                 365

Ser Phe Glu Glu Pro Gly Asn Gln Cys Thr Glu Leu
    370                 375                 380
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Page 3 of 3 - 09/15/2005 3:45:09 PM

<210> 3274
<211> 11
<212> PRT
<213> Homo sapiens

<400> 3274
Met Arg Trp Asn Leu Leu Leu Val Lys Leu Leu
  1   5   10

<210> 3275
<211> 31
<212> PRT
<213> Homo sapiens

<400> 3275
Met Phe Val Phe Thr Ile Tyr Cys Ile Val Gly Leu Phe Thr Phe Gly
  1   5   10   15

His Ser Ser Met Lys Cys Lys Leu Phe Gln Glu Ser His Glu Lys
            20   25   30

<210> 3276
<211> 28

<212> PRT
<213> Homo sapiens

<400> 3276
Met Ala Phe Ser Phe Pro Ala Ser Ala Gly Val Val Arg Val Gly Ala
1 5 10 15

Arg Arg Ala Leu Leu Phe Pro Phe Leu Leu Pro Gly
20 25

<210> 3277
<211> 105
<212> PRT
<213> Homo sapiens

<400> 3277
Met Ala His Lys Ile Gly Pro Pro Met Leu Phe Phe Phe Leu Ser Leu
1 5 10 15

Phe Asn Tyr Leu Leu Arg Leu Ser Lys Ala Lys Gly Asn Cys Glu Ile
20 25 30

Lys Ser Val Lys Tyr Asn Asn Ile Phe Lys Arg Lys Trp Ile Pro Leu
35 40 45

Phe Leu Phe Ala Thr Glu Lys Ala Pro Arg Arg His Arg Leu Cys Arg
50 55 60

Ile Ser Lys Gln Thr Met Met Glu Trp Arg Pro Val Gln Pro Phe Lys
65 70 75 80

Glu Arg Gln Val Glu Gln Pro Gly Glu Arg Pro Gly Gly Glu Glu Ser
85 90 95

Glu Thr Pro Glu Ser Lys Ala Val Phe
100 105

<210> 3278
<211> 22
<212> PRT
<213> Homo sapiens

<400> 3278
Glu Val Gln Tyr Val Gln Ile Phe His Ile Phe Leu Leu Leu Ser Leu
1 5 10 15

Tyr Leu Phe Ser Leu Phe
20

<210> 3279
<211> 39
<212> PRT
<213> Homo sapiens

<400> 3279

Met Thr Ile Ile Met Cys Pro Leu Ala Pro Leu Ile Ser Gly Val Cys
1 5 10 15

Ala Ile Pro Leu Ser Thr Ser Leu Ile Phe Leu Thr Pro Ser Leu Thr
20 25 30

Lys Ser Leu Gln Lys Pro Leu
35

<210> 3280
<211> 28
<212> PRT
<213> Homo sapiens

<400> 3280
Met Arg Ser Leu Ile Cys Pro Asn Pro His Gln Arg Leu Leu Phe Ser
1 5 10 15

Val Leu Leu Ile Ile Thr Ile Leu Met Gly Met Asn
20 25

<210> 3281
<211> 36
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3281
Met Leu Arg Lys Val Ile Leu Cys Met Leu Pro Phe Cys Phe Ile Leu
1 5 10 15

Leu Leu Lys Gln Asn Cys Gly Val Xaa Leu Cys Val Cys Ala Xaa Pro
20 25 30

Arg Cys Pro Ser
35

<210> 3282
<211> 22
<212> PRT
<213> Homo sapiens

<400> 3282
Met Asn Val Phe Ser Lys Asn Val Lys Cys Ile Tyr Phe Leu Tyr Leu
1 5 10 15

Tyr Ser Cys Phe Ile Phe
20

<210> 3283
<211> 32
<212> PRT
<213> Homo sapiens

<400> 3283
Met Ile Leu Phe Leu Leu Leu Leu Trp Ser Cys Ile Ser Ser Val Arg
1 5 10 15

Ser His Gly Tyr Leu Gln Ile Lys Ala Pro Ile Asn Gln Met His Leu
20 25 30

<210> 3284
<211> 38
<212> PRT
<213> Homo sapiens

<400> 3284
Met Pro Ser Pro Glu Lys Asn Phe Tyr His Leu Leu Leu Pro Phe Leu
1 5 10 15

Leu Ala Leu Leu Lys Ala Leu Lys Cys Asp Ser Ser Ser Ile Ala Ser
20 25 30

Thr Ser Met Tyr Asn Phe
35

<210> 3285
<211> 21
<212> PRT
<213> Homo sapiens

<400> 3285
Met Ile Leu Phe Phe His Phe Leu Ser Thr Tyr Val Glu Ala Ser Leu
1 5 10 15

Pro Lys His Asn Leu
20

<210> 3286
<211> 71
<212> PRT
<213> Homo sapiens

<400> 3286
Met Ala Ser Trp Glu Thr Phe Lys Arg Pro Ser Leu Ile Leu Ser Ala
1 5 10 15

Tyr Ser Asn Ser Ile Thr Gly Ile Thr Asp Asp Val Ser Ile Gly Leu
20 25 30

Ala Ser Thr Ser Thr Val Thr Arg Cys Leu Leu Ser Pro Lys Val Leu
35 40 45

Ser Lys Val Ser Val Ala Arg Thr Glu Phe Arg Met Val Ser Arg Tyr
50 55 60

Ala Thr Trp Arg Gly Pro Arg
65 70

<210> 3287
<211> 145
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (85)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3287
Gln Val Val Gly Met Thr Val Glu His Val Glu Cys Gln Asp Ala Gly
1 5 10 15

Val Arg Glu Ala Pro Gly Pro Leu Glu Gly Ala Gly Glu Ala Gly Gly
20 25 30

Glu Glu Ala Asp Glu Lys Pro Pro Gln Phe Val Cys Arg Glu Cys Lys
35 40 45

Glu Thr Phe Ser Thr Met Thr Leu Leu Arg Arg His Glu Arg Ser His
50 55 60

Pro Glu Leu Arg Pro Phe Pro Cys Thr Gln Cys Gly Lys Ser Phe Ser
65 70 75 80

Asp Arg Ala Gly Xaa Arg Lys His Ser Arg Thr His Ser Ser Val Arg
85 90 95

Pro Tyr Thr Cys Pro His Cys Pro Lys Ala Phe Leu Ser Ala Ser Asp
100 105 110

Leu Arg Lys His Glu Arg Thr His Pro Val Pro Met Gly Thr Pro Thr
115 120 125

Pro Leu Glu Pro Leu Val Ala Leu Leu Gly Met Pro Glu Glu Gly Pro
130 135 140

Ala
145

<210> 3288
<211> 32
<212> PRT

<213> Homo sapiens

<400> 3288
Met Asn Leu Pro Ser Val Asn Leu Gly Phe Arg Cys Phe Tyr Leu Phe
1 5 10 15

Ile Asp Phe Cys Phe Pro Ser Ser Ile Phe Phe Cys Thr Glu Phe Thr
20 25 30

<210> 3289
<211> 117
<212> PRT
<213> Homo sapiens

<400> 3289
Met Gly Leu Glu Ala Thr Ile Ala Met Leu Leu Leu Ser Gly Ala Leu
1 5 10 15

Val Ser Gly Pro Tyr Thr Leu Ile Thr Thr Ala Val Ser Ala Asp Leu
20 25 30

Gly Thr His Lys Ser Leu Lys Gly Asn Ala His Ala Leu Ser Thr Val
35 40 45

Thr Ala Ile Ile Asp Gly Thr Gly Ser Val Gly Ala Ala Leu Gly Pro
50 55 60

Leu Leu Ala Gly Leu Leu Ser Pro Ser Gly Trp Ser Asn Val Phe Tyr
65 70 75 80

Met Leu Met Phe Ala Asp Ala Cys Ala Leu Leu Phe Leu Ile Arg Leu
85 90 95

Ile His Lys Glu Leu Ser Cys Pro Gly Ser Ala Thr Gly Asp Gln Val
100 105 110

Pro Phe Lys Glu Gln
115

<210> 3290
<211> 30
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3290
Met Arg Leu Phe Ser Gln Met Leu Lys Ser Trp Met Ala Leu Phe Met
1 5 10 15

Arg Asn Val Trp Leu Glu Met Thr Ile Ala Thr Xaa Ile Gln

20 25 30

<210> 3291
<211> 50
<212> PRT
<213> Homo sapiens

<400> 3291
Met Phe Ser Leu Ile Ile Leu Leu Val Lys Tyr Asp Ile Pro Lys Glu
1 5 10 15

Asn His Phe Asn Leu Ser Ser Leu Leu Thr Lys Asn Thr Trp Leu Lys
20 25 30

Lys Tyr Ser Leu His Leu Tyr Glu His Leu Pro Tyr Asn Ile Pro Ala
35 40 45

Ile Ile
50

<210> 3292
<211> 14
<212> PRT
<213> Homo sapiens

<400> 3292
Met Lys Asp Gly Ser Arg Ser Leu Pro Gln Leu Ser Ile Cys
1 5 10

<210> 3293
<211> 37
<212> PRT
<213> Homo sapiens

<400> 3293
Met Pro Val Val Phe Val Leu Phe Ser Leu Phe Leu Thr Cys Val His
1 5 10 15

Asp Ser Phe Asp Ser Ala Ser Lys Ser Lys Ser Cys Val Val Thr Gly
20 25 30

Ala Phe Ile Tyr Leu
35

<210> 3294
<211> 56
<212> PRT
<213> Homo sapiens

<400> 3294
Met Leu His Leu Thr Pro Leu Lys Leu Pro Phe Cys Cys Trp Glu Glu
1 5 10 15

Ser Gly Ala Ser Leu Ser Ser Cys Thr Ala Ile Pro Met Leu Val Gly
20 25 30

Ala Ala Leu Pro Leu Val Pro Gly Val Ala Ser Ala Gln Ser Gln Arg
35 40 45

Ala Gly Ser Arg Val Leu His Arg
50 55

<210> 3295
<211> 90
<212> PRT
<213> Homo sapiens

<400> 3295
Met Thr Ser Pro His Phe Gln Leu Ser Ser Ser Leu Phe Met Trp Leu
1 5 10 15

Cys Trp Gly Trp Met Ala Glu Val Gly Trp Thr Asp Gly Tyr Lys Arg
20 25 30

Ile Cys Glu Ser Ile Glu Gly Val Thr Lys Ser Leu Arg Asp Lys Arg
35 40 45

Gly Asn Arg Thr Phe Gln Lys Val Val Leu Leu Leu Ser Gln Thr Leu
50 55 60

Tyr Ile His Val Tyr Phe Cys Lys Leu Leu Ser Pro Phe Gly Gln Thr
65 70 75 80

Thr Ile Thr Arg Val Lys Ser Tyr Gln Glu
85 90

<210> 3296
<211> 37
<212> PRT
<213> Homo sapiens

<400> 3296
Met Arg Lys Gly Ile His Tyr Ile Thr Phe Leu Val Ser Leu Cys Ser
1 5 10 15

Leu Phe His Phe Tyr Gln Thr Glu Gly Val Asn Phe Leu Thr Arg Asn
20 25 30

Leu Lys Asp Arg Asn
35

<210> 3297
<211> 6
<212> PRT
<213> Homo sapiens

<400> 3297
Met Cys His Val Thr Thr

1 5

<210> 3298
<211> 32
<212> PRT
<213> Homo sapiens

<400> 3298
Met Ser Asp Pro Leu Leu Arg Ile Thr Leu Gly Leu Trp Gly Met Trp
1 5 10 15

Leu Phe Cys Gly Arg Gln Ala His Leu Gly Phe Leu Trp Arg Gly Arg
20 25 30

<210> 3299
<211> 13
<212> PRT
<213> Homo sapiens

<400> 3299
Met Ala Ser Leu Gly Gln Ile Leu Phe Trp Ser Ile Ile
1 5 10

<210> 3300
<211> 35
<212> PRT
<213> Homo sapiens

<400> 3300
Met Val Cys Leu Pro Val His Ser Arg Ala Leu Leu Thr Gly Phe Leu
1 5 10 15

Phe Phe Lys Met Leu Cys Cys Lys Ile Leu Ser Tyr Leu Leu Phe Pro
20 25 30

Gly Thr Val
35

<210> 3301
<211> 62
<212> PRT
<213> Homo sapiens

<400> 3301
Met Gly Leu Ser Ala Ala Ser Gln Ile Cys Gly Leu Cys Leu Leu Trp
1 5 10 15

Leu Ser Pro His Phe Ala Ser Gln Ile Cys Pro Pro Val His Ile Leu
20 25 30

Pro Thr Ser Asn Pro Gly Ser Val Ser Ala Ser Gln Arg Thr Trp Thr
35 40 45

Lys Ala Leu Ala Val Ser Gly Leu Val Asp Pro Ser Thr Ser
50 55 60

<210> 3302
<211> 28
<212> PRT
<213> Homo sapiens

<400> 3302
Met Thr Phe Phe Leu Leu Trp Phe Ile Cys Ile Leu Leu Val Leu Phe
1 5 10 15

Gln Lys Asn Ser Ile Glu Met Arg His Arg Tyr Gln
20 25

<210> 3303
<211> 74
<212> PRT
<213> Homo sapiens

<400> 3303
Met Leu Tyr Arg Gly Ser Trp Leu Leu Gly Leu Ser Phe Ala Ser Thr
1 5 10 15

Trp Leu His Val Ala Gly Thr Leu Val Pro Arg Glu Arg Thr Arg Ala
20 25 30

Val Arg Pro Ala Asp Gly His Arg Gly Ala Thr Ala Arg Leu Ala Leu
35 40 45

Val Pro Arg Glu Arg Lys Ser Glu Ala Ala Asp Pro Glu Gly Lys Ala
50 55 60

Glu Ser Ala Met Gln Leu Gln Met Ser Gly
65 70

<210> 3304
<211> 18
<212> PRT
<213> Homo sapiens

<400> 3304
Met Cys Ile Gln Leu Leu Leu Leu Leu Leu Val Trp Gly Arg Gly Leu
1 5 10 15

Glu Ser

<210> 3305
<211> 30

<212> PRT
<213> Homo sapiens

<400> 3305
Met Leu Ile Ser Leu Ser Leu Ser Leu Ser Leu Leu Thr Lys Val Tyr
1 5 10 15

Gln Arg Pro Gln Ala Gln Gly Leu Ser Gln Val Lys Ala Gly
20 25 30

<210> 3306
<211> 26
<212> PRT
<213> Homo sapiens

<400> 3306
Asn Phe Lys His Gln Phe Thr Met Leu Ile Lys Ser Thr Phe Ile Phe
1 5 10 15

Ser Ser Glu Leu Asn Asn Pro Ile Asn Lys
20 25

<210> 3307
<211> 20
<212> PRT
<213> Homo sapiens

<400> 3307
Met Tyr Lys Ser Cys Gly Phe Leu Cys Phe Tyr Asp Lys Ser Gly Ile
1 5 10 15

Val Phe Leu Asn
20

<210> 3308
<211> 34
<212> PRT
<213> Homo sapiens

<400> 3308
Met Tyr Trp Trp Pro Phe Ile Phe Pro Ile Phe Leu Ala Ala Thr Glu
1 5 10 15

Ile Cys Pro Ser Phe Ser Gly Asp Asn Phe Ser Val Phe Ser Lys Ser
20 25 30

Ser Ile

<210> 3309
<211> 16
<212> PRT
<213> Homo sapiens

<400> 3309
Met Trp Ile Gly Val Val Leu Ser Ile Trp Lys Leu Leu Leu Glu Ile
1 5 10 15

<210> 3310
<211> 27
<212> PRT
<213> Homo sapiens

<400> 3310
Met Ala Thr Leu Thr Phe Ser Leu Arg Lys Pro Leu Gln Arg Ser Leu
1 5 10 15

Ile Arg Pro Ser Arg Leu Pro Leu Cys Cys Phe
20 25

<210> 3311
<211> 68
<212> PRT
<213> Homo sapiens

<400> 3311
Met Ser Cys Tyr Phe Leu Leu Cys Leu Ser Leu Leu Gln Pro His Trp
1 5 10 15

Pro Ser Tyr Cys Ser Ile Asn Met Pro Gly Thr Phe Leu Pro Gln Gly
20 25 30

Leu Cys Thr Ser His Ala Phe Cys Ser Ser Arg Phe Leu Gln Ser Ser
35 40 45

Phe Pro Thr Ser Phe Met Ser Leu Leu Val His Leu Leu Met Arg Leu
50 55 60

Ser Tyr His Val
65

<210> 3312
<211> 12
<212> PRT
<213> Homo sapiens

<400> 3312
Met Trp Arg His Thr Glu Leu Pro Pro Val Tyr Val
1 5 10

<210> 3313
<211> 44
<212> PRT

<213> Homo sapiens

<400> 3313
Met Ile Phe Pro Leu Gln Glu Phe Ser Leu Phe Gly Gln Trp Trp Leu
1 5 10 15

Gln Val Phe Leu Glu Gly Ile Ile Phe Ile Pro Thr Ile Leu Leu Tyr
20 25 30

Val His Thr Cys Val Pro Ser Asn Ser His Ser Ile
35 40

<210> 3314
<211> 6
<212> PRT
<213> Homo sapiens

<400> 3314
Glu Ile Pro Tyr Lys Glu
1 5

<210> 3315
<211> 26
<212> PRT
<213> Homo sapiens

<400> 3315
Met Glu Pro Gly Phe Asp Leu Ser His Ser Cys Phe Gly Val Cys Pro
1 5 10 15

Leu Asn Thr Leu Tyr Gly Val Ser Asn Leu
20 25

<210> 3316
<211> 30
<212> PRT
<213> Homo sapiens

<400> 3316
Met Gly Asn Leu Phe Phe Leu Ala Leu Leu Val Asn Leu Trp Val Tyr
1 5 10 15

Pro Val Ala Thr Leu Arg Ile Ser Ile Ile Asn Lys Thr Gln
20 25 30

<210> 3317
<211> 5
<212> PRT
<213> Homo sapiens

<400> 3317
Met Pro Lys Ile Leu
1 5

<210> 3318
<211> 5
<212> PRT
<213> Homo sapiens

<400> 3318
Met Pro Lys Ile Leu
1 5

<210> 3319
<211> 6
<212> PRT
<213> Homo sapiens

<400> 3319
Met Phe Gln Gly Gln Trp
1 5

<210> 3320
<211> 31
<212> PRT
<213> Homo sapiens

<400> 3320
Met Thr Phe Cys Phe Cys Ile Gly Phe Thr Val Ile Gln Phe Ser Ser
1 5 10 15

Leu Ile Ser Ser Lys Thr Lys Ser Glu Cys Thr Arg Phe Phe Arg
20 25 30

<210> 3321
<211> 109
<212> PRT
<213> Homo sapiens

<400> 3321
Met Val Phe Leu Pro Ala His Ser Gln Pro Phe Leu Phe Pro Phe Leu
1 5 10 15

Phe Phe Phe Ser Pro His Thr Phe Leu Gly Leu Pro Pro Trp Lys Glu
20 25 30

Glu Gly Leu Thr Trp Val Leu Ser Ser Pro Gln Val Arg Arg Val Thr
35 40 45

Arg Ala Pro Ser Leu Trp Thr Trp Ala Leu Pro Glu Pro Leu Pro Gln
50 55 60

Leu Pro Gln Leu Arg Pro Ala Gly Pro Gly His Gly Leu Arg Lys Ser
65 70 75 80

Pro Ala Pro Asn Pro Gly Arg Asn Trp Pro Leu Leu Gly Ser Leu Phe

85 90 95

Asp Phe Phe Arg Lys Met Ile Ser Ile Ser Phe Gln Pro
100 105

<210> 3322
<211> 19
<212> PRT
<213> Homo sapiens

<400> 3322
Met Leu Glu Tyr Gly Leu Leu Leu Leu Val Ile Leu Val Leu Phe Pro
1 5 10 15

Ser Phe Pro

<210> 3323
<211> 26
<212> PRT
<213> Homo sapiens

<400> 3323
Met His Pro Asp Leu Trp Pro Asp Cys Gly Leu Trp Leu Pro Gln Ala
1 5 10 15

Phe Ser Ser Leu His Trp Val Phe Leu His
20 25

<210> 3324
<211> 36
<212> PRT
<213> Homo sapiens

<400> 3324
Met Ile Arg Tyr Trp Gly Phe Gly Gly Thr Gln Thr Leu Ala Ile Leu
1 5 10 15

Cys Val Pro Leu Asp Gln Ser Pro Lys Arg Arg Gly Ala Gly Arg Lys
20 25 30

Glu Trp Gly Ser
35

<210> 3325
<211> 63
<212> PRT
<213> Homo sapiens

<400> 3325
Met Phe Tyr Ile Leu Phe Ile Cys Leu Gly Ser Arg Val Leu Asn Leu
1 5 10 15

Glu Arg Ser Thr Ser Ile Glu Thr Tyr Gly Ser Cys Ser Leu Glu Ser
20 25 30

Gln Trp Arg Leu Ile Ala Val Leu His Met Asn Ser Asn Leu Thr Leu
35 40 45

Asn His Gln Gln Thr Leu Ser Phe His Gln Asp Val Asp Lys Glu
50 55 60

<210> 3326
<211> 5
<212> PRT
<213> Homo sapiens

<400> 3326
Ser Tyr Cys Ser Val
1 5

<210> 3327
<211> 30
<212> PRT
<213> Homo sapiens

<400> 3327
Met Lys Leu Glu Ala Phe Ile Asp Phe Cys Cys Phe Leu Val Val Leu
1 5 10 15

Thr Trp Ile Gln Val Val Leu Ile His Leu Phe Cys Leu Lys
20 25 30

<210> 3328
<211> 10
<212> PRT
<213> Homo sapiens

<400> 3328
Met Leu Leu Leu Asp Ser Asp Val Trp Phe
1 5 10

<210> 3329
<211> 14
<212> PRT
<213> Homo sapiens

<400> 3329
Met Pro Trp Leu Gln Gln Leu Val Ser Phe Gly Leu Met Ser
1 5 10

<210> 3330
<211> 41
<212> PRT

<213> Homo sapiens

<400> 3330
Glu Ser Leu Leu Leu Val Ile Ala Phe Leu Phe Phe Cys Ser Phe Ser
1 5 10 15

Phe Pro Ser Ile Lys Asp Leu Leu Tyr Ala Phe Arg Lys Ile Thr Lys
20 25 30

Ala Glu Cys Leu Leu Thr Ile Tyr Gly
35 40

<210> 3331
<211> 15
<212> PRT
<213> Homo sapiens

<400> 3331
Lys Asn Cys Tyr Pro Lys Gly Phe Leu Arg Ala Asn Cys Leu Leu
1 5 10 15

<210> 3332
<211> 15
<212> PRT
<213> Homo sapiens

<400> 3332
Met Thr Gln Gly Ile Ile Phe Leu Val Cys Ile Leu Asp Val Leu
1 5 10 15

<210> 3333
<211> 40
<212> PRT
<213> Homo sapiens

<400> 3333
Met Lys Ser Thr Asn Phe Leu Lys Gln Ala Leu Phe Phe Phe Phe Trp
1 5 10 15

Lys Thr Cys Val Val Cys Pro Val Tyr Leu Phe Leu Met Arg Arg Pro
20 25 30

Ala Phe Cys Gly Pro Arg Glu His
35 40

<210> 3334
<211> 53
<212> PRT
<213> Homo sapiens

<400> 3334
Met Gly Ser Ser Thr Phe Ile Leu Phe Phe Ser Phe Leu Leu Phe Ser
1 5 10 15

Pro Phe Leu Ser Pro Ser Pro Thr Thr Ser Leu Tyr Phe Phe Phe Ile
20 25 30

Tyr Ser Arg Leu Ile Phe Ser Ala Lys Arg Cys Leu Gly Pro Leu Thr
35 40 45

Ser Gln Glu Ala Leu
50

<210> 3335
<211> 11
<212> PRT
<213> Homo sapiens

<400> 3335
Met His Phe His Ala Asp Tyr Met His Gly Cys
1 5 10

<210> 3336
<211> 37
<212> PRT
<213> Homo sapiens

<400> 3336
Asn Ser Leu Lys Thr Ile Ile Phe Ala Leu Lys Thr Val Val Phe Leu
1 5 10 15

Asp Leu Pro Val Tyr Ala His Ser Leu Leu Trp His Leu Tyr Ser Tyr
20 25 30

Cys Asn Ala Tyr Ser
35

<210> 3337
<211> 55
<212> PRT
<213> Homo sapiens

<400> 3337
Met Thr Phe Ser Pro Ala Leu Pro Pro Leu Arg Ser Pro Cys Ser Glu
1 5 10 15

Leu Leu Leu Trp Arg Tyr Pro Gly Ser Leu Ile Pro Glu Ala Leu Arg
20 25 30

Leu Leu Arg Leu Gly Asp Thr Pro Ser Pro Pro Tyr Pro Ala Thr Pro
35 40 45

Ala Gly Asp Ile Met Glu Leu
50 55

<210> 3338

<211> 19
<212> PRT
<213> Homo sapiens

<400> 3338
Gly Met Leu His Asp Gly Gln Leu Leu Pro Ser Leu Val Ile Ile His
1 5 10 15

Cys Ser Cys

<210> 3339
<211> 29
<212> PRT
<213> Homo sapiens

<400> 3339
Leu Glu Leu Leu Val Cys Asn Tyr Val Tyr Gly Asn Gly Val Val Phe
1 5 10 15

Met Ile Cys Ile Tyr Ile Ile Ile Trp Met Tyr Ile Tyr
20 25

<210> 3340
<211> 50
<212> PRT
<213> Homo sapiens

<400> 3340
Trp Pro Leu Leu Pro Gln Val Leu Gln Glu Arg Val Trp Trp Ala His
1 5 10 15

Leu Gln Ser Gln Leu Leu Gly Lys Leu Gln Gly Leu Leu Glu Pro Arg
20 25 30

Lys Ser Gln Leu Ala Gly His Leu Glu Leu Pro Lys Asn Thr Leu Ser
35 40 45

Arg Lys
50

<210> 3341
<211> 62
<212> PRT
<213> Homo sapiens

<400> 3341
Met Phe Leu Gly Ser Leu Gly Ile Cys Arg Phe Ala Leu Trp Ile Leu
1 5 10 15

Thr Val Phe Lys Val Leu Met Ile Ser Gln Ser Phe Phe Leu Thr Ser
20 25 30

Glu Lys Lys Met His Cys Phe Leu Ile Phe Pro Met Gln Asn Gln Asn
35 40 45

Lys Lys Leu Ile Leu Cys Phe Lys Lys Lys Lys Lys Asn Ser
50 55 60

<210> 3342
<211> 40
<212> PRT
<213> Homo sapiens

<400> 3342
Met Lys Gly Val Leu Leu Ile Asn Leu Leu Tyr Tyr Leu Asp Thr Phe
1 5 10 15

Val Tyr Ser Leu Gln Pro Thr Cys Ile Arg Gly Ile Gly Val Gly Leu
20 25 30

Asn His Gln His Tyr Phe Ile Lys
35 40

<210> 3343
<211> 142
<212> PRT
<213> Homo sapiens

<400> 3343
Met Cys Ala Pro Ala Phe Pro Ala Trp Asn Val Phe Trp Leu Ser Cys
1 5 10 15

Ser Asn Ile Cys Glu Pro Ser Val Cys Pro Val Ser Leu Gly Ser Leu
20 25 30

Gln Val Gln Glu His Thr Cys Arg Ala Gln His Asp Asp Gly Val Lys
35 40 45

Gly Arg Lys Gln Ser Ser Glu Gly Val Gly Arg Trp Ala Val Cys Pro
50 55 60

Arg Gln Val Pro Ser Pro Pro Ala Ser Phe Leu Arg Pro Gly Arg Ala
65 70 75 80

Ala Met Val Leu Ala Ala Ser Pro Ser Val Leu Thr Val Ser Leu His
85 90 95

Leu Gly Pro Pro Glu Ser Gln Val Ser Phe Ser Ser Asn Leu Thr Arg
100 105 110

Glu Lys Lys His Gly Cys Ala Trp Pro Thr Gly Pro Gly Gly Asp Gly
115 120 125

Pro Pro Arg Ser Leu Lys Leu Trp Met Ala Ala Val Leu Tyr
130 135 140

<210> 3344
<211> 43
<212> PRT

<213> Homo sapiens

<400> 3344
Met Met Leu Leu Asn Ser Ile Gln Val Leu Leu Tyr Val Pro Ile Val
1 5 10 15

Phe Arg Phe Leu Thr Asp Cys Cys Gly Cys Thr Ser Leu Ser Asp Cys
20 25 30

Ser Leu Ile Tyr Cys Arg Thr Leu Gly Cys Phe
35 40

<210> 3345
<211> 36
<212> PRT
<213> Homo sapiens

<400> 3345
Met Cys Ile Leu Phe Cys Thr Pro Ile Ser Leu Phe Leu Cys Trp Leu
1 5 10 15

Pro Gly Pro Ser Leu Glu Pro Trp Val Glu Arg Leu Leu Lys Asp His
20 25 30

His Arg Gln Pro
35

<210> 3346
<211> 81
<212> PRT
<213> Homo sapiens

<400> 3346
Met His Pro Phe Phe Pro Gln Arg Gly Trp Thr Gln Val Ser Leu Gly
1 5 10 15

Val Gly Ala Pro Ala Leu Cys His Arg His Gly Glu Gly Phe Leu Leu
20 25 30

Thr Pro Ser Ala Leu Pro Thr Trp Val Val Leu Ser Lys Lys Val Ile
35 40 45

Pro Pro Ala Leu Ala Pro Phe Pro Arg Thr Lys His Val Asp His Val
50 55 60

Gln Tyr Phe Leu Leu Cys Arg Glu Ala Ala Met Ser Glu Ile Lys Ala
65 70 75 80

Val

<210> 3347
<211> 7
<212> PRT
<213> Homo sapiens

<400> 3347
Met Thr Ile Phe Glu Pro Ser
1 5

<210> 3348
<211> 51
<212> PRT
<213> Homo sapiens

<400> 3348
Met Gly Ala Ala Ala Ala Pro Ala Trp Val Leu Leu Cys Ile Pro Ala
1 5 10 15

Gly Gln Gly Pro Leu Pro Gly Pro Arg Leu Pro Phe His Ile Pro Ile
20 25 30

Leu Lys Phe Cys Tyr Cys Gly Ile Leu Val Glu Lys Lys Glu Pro Arg
35 40 45

Gly Cys Phe
50

<210> 3349
<211> 40
<212> PRT
<213> Homo sapiens

<400> 3349
Met Thr Ala Val Gly Gly Ser Ile Cys Val Met Leu Val Val Ile Cys
1 5 10 15

Leu Leu Val Ala Tyr Ile Thr Glu Asn Leu Met Arg Pro Ala Leu Ala
20 25 30

Arg Pro Gly Leu Arg Arg His Pro
35 40

<210> 3350
<211> 17
<212> PRT
<213> Homo sapiens

<400> 3350
Met Ser Thr Gly His Gly Ala Cys Leu Val Ser Leu Pro Val Val Gln
1 5 10 15

Ala

<210> 3351
<211> 41
<212> PRT

<213> Homo sapiens

<400> 3351
Met Arg Thr Leu Leu Phe Leu Ser Leu Ala Phe Lys Ala Cys His Asn
1 5 10 15

Leu Val Thr Pro Leu Ile Pro Val Ser Ser Ser Ile Phe Pro Ala Thr
20 25 30

His Arg Phe Pro Val Phe Thr Ile Ser
35 40

<210> 3352
<211> 7
<212> PRT
<213> Homo sapiens

<400> 3352
Met Ile Cys Leu Ala Leu Tyr
1 5

<210> 3353
<211> 57
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3353
Met Thr Gly Leu Tyr Ala Val Gly Arg Gly Ala Trp Thr Ala Gly Leu
1 5 10 15

Cys Ala Val Gly Trp Gly Gly Leu Asp Val Trp Leu Leu Cys Gly Ala
20 25 30

Gly Ala Gly Leu Gly Pro Xaa Gly Arg Leu Glu Gly Gln Pro Gly Pro
35 40 45

Val Val Ser Leu Val Arg Asn Arg Lys
50 55

<210> 3354
<211> 52
<212> PRT
<213> Homo sapiens

<400> 3354
Met Pro Ala Val Ser Ala Phe Phe Ser Leu Ala Ala Leu Ala Glu Val
1 5 10 15

Ala Ala Met Glu Asn Val His Arg Gly Gln Arg Ser Thr Pro Leu Thr
20 25 30

His Asp Gly Gln Pro Lys Glu Met Pro Gln Leu Pro Val Leu Ile Ser
35 40 45

Cys Ala Asp Gln
50

<210> 3355
<211> 38
<212> PRT
<213> Homo sapiens

<400> 3355
Met Leu Ile Thr Leu Ile Ile Val Val Gly Thr Phe Cys Ser Trp Val
1 5 10 15

Gln Ala Tyr Phe Thr His Ile Trp Leu Leu Cys Leu Phe Trp Lys Thr
20 25 30

Ala Ala Ser Trp Ser Asp
35

<210> 3356
<211> 22
<212> PRT
<213> Homo sapiens

<400> 3356
Met Lys Phe Val Leu Phe Tyr Leu Cys Thr Gly Tyr Pro Leu Phe Trp
1 5 10 15

Glu Cys Phe Phe Ile Leu
20

<210> 3357
<211> 15
<212> PRT
<213> Homo sapiens

<400> 3357
Asp Thr Ile Val Leu Ser Gly Cys Leu Cys Leu Cys Tyr Tyr Val
1 5 10 15

<210> 3358
<211> 10
<212> PRT
<213> Homo sapiens

<400> 3358
Met Gly Thr Ser Ser Ile Leu Gln Met Lys
1 5 10

<210> 3359
<211> 43
<212> PRT
<213> Homo sapiens

<400> 3359
Met Val Cys Gly Glu Trp Val Pro Gly Met Leu Arg Ala Leu Arg Ala
1 5 10 15

Ala Leu Phe Leu Phe Ile Ala Ile Ser Val Lys Leu Ser Phe Leu Gly
20 25 30

Asn Val His Arg Leu Ala Thr Ala Asp Val Leu
35 40

<210> 3360
<211> 68
<212> PRT
<213> Homo sapiens

<400> 3360
Lys Leu Trp Gln Thr Met Cys Asp Ala Phe Phe Cys Ile Gly Cys Ser
1 5 10 15

His Trp Ile Ala Gly Ser Gly Tyr Cys Val Ile Val Ala Ala Leu Gly
20 25 30

Leu Ala Glu Gly Pro Leu Cys Leu Asp Ser Leu Gly Gln Trp Asn Tyr
35 40 45

Thr Phe Ala Gln His Arg Gly Pro Val Pro Ser Gly Tyr Leu His Met
50 55 60

Val Arg Val His
65

<210> 3361
<211> 26
<212> PRT
<213> Homo sapiens

<400> 3361
Met Ala Leu Thr Gly Ala Phe Ile Val Lys Ser Tyr Ser Arg Gly Trp
1 5 10 15

Ser Cys Gly Cys Val Cys Ser Val Pro Ile
20 25

<210> 3362
<211> 10
<212> PRT
<213> Homo sapiens

<400> 3362

Met Leu Trp Ile Phe Lys Trp Gln Val Leu
1 5 10

<210> 3363
<211> 218
<212> PRT
<213> Homo sapiens

<400> 3363
Met Gly Met Trp Ser Ile Gly Ala Gly Ala Leu Gly Ala Ala Ala Leu
1 5 10 15

Ala Leu Leu Leu Ala Asn Thr Asp Val Phe Leu Ser Lys Pro Gln Lys
20 25 30

Ala Ala Leu Glu Tyr Leu Glu Asp Ile Asp Leu Lys Thr Leu Glu Lys
35 40 45

Glu Pro Arg Thr Phe Lys Ala Lys Glu Leu Trp Glu Lys Asn Gly Ala
50 55 60

Val Ile Met Ala Val Arg Arg Pro Gly Cys Phe Leu Cys Arg Glu Glu
65 70 75 80

Ala Ala Asp Leu Ser Ser Leu Lys Ser Met Leu Asp Gln Leu Gly Val
85 90 95

Pro Leu Tyr Ala Val Val Lys Glu His Ile Arg Thr Glu Val Lys Asp
100 105 110

Phe Gln Pro Tyr Phe Lys Gly Glu Ile Phe Leu Asp Glu Lys Lys Lys
115 120 125

Phe Tyr Gly Pro Gln Arg Arg Lys Met Met Phe Met Gly Phe Ile Arg
130 135 140

Leu Gly Val Trp Tyr Asn Phe Phe Arg Ala Trp Asn Gly Gly Phe Ser
145 150 155 160

Gly Asn Leu Glu Gly Glu Gly Phe Ile Leu Gly Gly Val Phe Val Val
165 170 175

Gly Ser Gly Lys Gln Gly Ile Leu Leu Glu His Arg Glu Lys Glu Phe
180 185 190

Gly Asp Lys Val Asn Leu Leu Ser Val Leu Glu Ala Ala Lys Met Ile
195 200 205

Lys Pro Gln Thr Leu Ala Ser Glu Lys Lys
210 215

<210> 3364
<211> 195
<212> PRT
<213> Homo sapiens

<400> 3364

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Met Gly Met Trp Ser Ile Gly Ala Gly Ala Leu Gly Ala Ala Ala Leu
 1               5                  10                  15

Ala Leu Leu Leu Ala Asn Thr Asp Val Phe Leu Ser Lys Pro Gln Lys
            20                  25                  30

Ala Ala Leu Glu Tyr Leu Glu Asp Ile Asp Leu Lys Thr Leu Glu Lys
        35                  40                  45

Glu Pro Arg Thr Phe Lys Ala Lys Glu Leu Trp Glu Lys Asn Gly Ala
    50                  55                  60

Val Ile Met Ala Val Arg Arg Pro Gly Cys Phe Leu Cys Arg Glu Glu
65                  70                  75                  80

Ala Ala Asp Leu Ser Ser Leu Lys Ser Met Leu Asp Gln Leu Gly Val
                85                  90                  95

Pro Leu Tyr Ala Val Val Lys Glu His Ile Arg Thr Glu Val Lys Asp
            100                 105                 110

Phe Gln Pro Tyr Phe Lys Gly Glu Ile Phe Leu Asp Glu Lys Lys Lys
        115                 120                 125

Phe Tyr Gly Pro Gln Arg Arg Lys Met Met Phe Met Gly Phe Ile Arg
    130                 135                 140

Leu Gly Val Trp Tyr Asn Phe Phe Arg Ala Trp Asn Gly Gly Phe Ser
145                 150                 155                 160

Gly Asn Leu Glu Gly Glu Gly Ser Ser Leu Gly Glu Phe Ser Trp Trp
                165                 170                 175

Asp Gln Glu Ser Arg Ala Phe Phe Leu Ser Thr Glu Lys Lys Asn Leu
            180                 185                 190

Gly Thr Lys
        195
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<210> 3365
<211> 21
<212> PRT
<213> Homo sapiens

<400> 3365
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Met Ser Trp Ile Leu Phe Leu Leu Ala Leu Val Glu His Ile Phe Pro
 1               5                  10                  15

Leu Gln Ser Ser Gly
            20
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<210> 3366
<211> 18
<212> PRT
<213> Homo sapiens

<400> 3366

Gly Arg Ser Tyr Val Lys Asn Gln Val Phe Cys Gly Ile Phe Tyr Arg
1 5 10 15

Asn Arg

<210> 3367
<211> 41
<212> PRT
<213> Homo sapiens

<400> 3367
Met Lys Cys Phe Leu Leu Leu Cys Cys Ala Ile Val Leu Cys Phe Ser
1 5 10 15

Lys His Cys Lys Asn Ser Ile Phe Gly Leu Val Phe Trp Ile Ile Tyr
20 25 30

Tyr Asn Leu Arg Ser Val Leu Leu Met
35 40

<210> 3368
<211> 21
<212> PRT
<213> Homo sapiens

<400> 3368
Met Phe Ile Tyr Leu Ala Val Phe Val Tyr Leu Leu Glu Leu Trp Ser
1 5 10 15

Gln Leu Pro Gly Thr
20

<210> 3369
<211> 29
<212> PRT
<213> Homo sapiens

<400> 3369
Met Ser Lys Pro Lys Lys Tyr Thr Ile Val Leu Val Leu Leu Pro Tyr
1 5 10 15

Arg Glu Ala Ile Gln Thr Val Gly Met Asn Leu Ser Tyr
20 25

<210> 3370
<211> 45
<212> PRT
<213> Homo sapiens

<400> 3370
Met Val Thr Ser Gly Met Leu Val Phe Ser Ile Lys Thr Phe Ser Ser
1 5 10 15

Lys Ala Phe Leu Ala Val Val Ser Phe Ile Leu Val Val Ser Ile Lys
20 25 30

Cys Ser Glu Gly Ala Asp Thr Ser Arg Lys Gly Phe Ser
35 40 45

<210> 3371
<211> 38
<212> PRT
<213> Homo sapiens

<400> 3371
Met Ser Ala Leu Leu Glu Ile Leu Ala Leu Leu Leu His Ser Val Ser
1 5 10 15

Gly Pro Gly Met Gly Val Phe Arg Ser Ser Pro Ser Phe Pro Gly Ala
20 25 30

Ala Thr Trp Leu Phe Gly
35

<210> 3372
<211> 38
<212> PRT
<213> Homo sapiens

<400> 3372
Met Ser Ala Leu Leu Glu Ile Leu Ala Leu Leu Leu His Ser Val Ser
1 5 10 15

Gly Pro Gly Met Gly Val Phe Arg Ser Ser Pro Ser Phe Pro Gly Ala
20 25 30

Ala Thr Trp Leu Phe Gly
35

<210> 3373
<211> 30
<212> PRT
<213> Homo sapiens

<400> 3373
Met Arg Phe Phe Cys Ser Leu Met Phe Phe Gly Tyr Gly Tyr Gly Ile
1 5 10 15

Cys Arg Leu Gly Gly Lys Glu Leu Lys Ile Thr Gly Ala Gly
20 25 30

<210> 3374
<211> 35
<212> PRT
<213> Homo sapiens

<400> 3374
Met Asn Asn Leu Leu Ile Leu Phe Leu Lys Thr Ser Cys Leu Cys Phe
1 5 10 15

Leu Ile Cys Val Cys Ile Phe Lys His Phe Val Arg Leu Ser Ala Thr
20 25 30

Leu Gly Ser
35

<210> 3375
<211> 78
<212> PRT
<213> Homo sapiens

<400> 3375
Met Tyr Ile Ala Leu Ser Ser Val His Ala Leu Ile Leu Cys Gly Phe
1 5 10 15

Gln Phe Ile Ser Cys Val Arg Gly Gln Trp Thr Glu Cys Ser Asp Phe
20 25 30

Ser Pro Pro Ile Thr Val Ile Leu Leu Ile Phe Leu Cys Leu Glu Gly
35 40 45

Leu Leu Phe Phe Thr Phe Thr Gly Ser Tyr Val Trp His Pro Asn Pro
50 55 60

Leu His Met Gln Arg Arg Asp Gly Asp Arg Ala Ile Glu Lys
65 70 75

<210> 3376
<211> 8
<212> PRT
<213> Homo sapiens

<400> 3376
Met Leu Ala Ser Gly Glu Tyr Ile
1 5

<210> 3377
<211> 34
<212> PRT
<213> Homo sapiens

<400> 3377
Met Asn Val Phe Phe Phe Pro Cys Trp Ser Leu Ile Phe Met Ile Val
1 5 10 15

Phe Gln Phe Leu Asp Leu Thr Ser Cys Met Arg Ser Thr Glu Ser Thr
20 25 30

Gln Glu

<210> 3378
<211> 76
<212> PRT
<213> Homo sapiens

<400> 3378
Met Lys Lys His Val Leu Val Ala His Phe His Tyr Leu Ile Asn Ser
1 5 10 15

Tyr Phe Gly Leu Arg Thr Glu Glu Met Gly Glu Gln Pro Lys Thr Asn
20 25 30

Asp Thr Val Ser Ile Glu Lys Ile Pro Pro Pro Asp Lys Tyr Tyr Cys
35 40 45

Lys Lys Cys Asn Ala Gln Cys Gln Gln Pro Gly Cys Val Asn Val Ser
50 55 60

His Phe Asp Ile Arg His Thr Gln Arg Phe Gly Glu
65 70 75

<210> 3379
<211> 12
<212> PRT
<213> Homo sapiens

<400> 3379
Met Asn Gly Arg Arg Leu Ile Phe Pro Tyr Val Leu
1 5 10

<210> 3380
<211> 49
<212> PRT
<213> Homo sapiens

<400> 3380
Met Leu Ala Ala Asp Trp Leu Gly Trp Val Lys Ser Gln Gly Val Glu
1 5 10 15

Ala Val Leu Leu Trp Ala Glu Leu Leu Leu Gly Gly Ala Ile Gly Val
20 25 30

Gly Leu Leu Gly Pro Gly Arg Thr Thr Gly Val Arg His Ala Lys Ile
35 40 45

Lys

<210> 3381
<211> 20
<212> PRT
<213> Homo sapiens

<400> 3381
Met Phe Ser Trp Lys Leu Leu Tyr Ser Leu Ile Leu His Gly Leu Ala
1 5 10 15

Leu Asn Cys Leu
20

<210> 3382
<211> 30
<212> PRT
<213> Homo sapiens

<400> 3382
Met Phe Val Leu Leu Phe Ser Glu Ile Phe Leu Ser Thr Val Ala Gly
1 5 10 15

Lys Leu Arg Ser Gly Pro Cys Ala Ala Cys Leu Leu Leu Pro
20 25 30

<210> 3383
<211> 34
<212> PRT
<213> Homo sapiens

<400> 3383
Met Thr Arg Asp Asp Thr Leu Ser Leu Trp Leu Gly Leu Val Ile Leu
1 5 10 15

Ile Asn Cys Leu Tyr Leu Tyr Leu Thr Glu Thr Ser Leu Lys Met Pro
20 25 30

Leu Tyr

<210> 3384
<211> 28
<212> PRT
<213> Homo sapiens

<400> 3384
Ile Leu Ser Thr Gly Phe Cys Phe Leu Leu Phe Leu Phe Val Leu Arg
1 5 10 15

Lys Gly Lys Lys Ser Gln Val Cys Leu Thr Ile Gln
20 25

<210> 3385
<211> 37
<212> PRT
<213> Homo sapiens

<400> 3385

Met Ser Phe Ser Leu Ser Leu Thr Thr Gln Tyr Leu Cys Val Ser Leu
1 5 10 15

Ser Leu Val Met Lys Cys Leu Ser Leu Trp Pro Val Ser His Cys Leu
20 25 30

Tyr Ile Cys Phe Pro
35

<210> 3386
<211> 31
<212> PRT
<213> Homo sapiens

<400> 3386
Met His Arg Lys Phe Cys Ile Phe Thr Leu Leu Leu Val Phe Ser Arg
1 5 10 15

Ser Glu Ser Glu His Leu Pro Phe Leu Ala Ala Ala Gly Ala Leu
20 25 30

<210> 3387
<211> 73
<212> PRT
<213> Homo sapiens

<400> 3387
Met Thr Val Leu Leu Leu Leu Ile Pro Leu Ser Lys Arg Glu Pro Phe
1 5 10 15

Ser Lys Ser Phe Asp Gly Lys Ser Ser Gly Ile His Phe Ala Val Leu
20 25 30

Ile Gly Leu Leu Leu Thr Phe Cys Phe Leu Ile Leu Lys Ser Cys Lys
35 40 45

Gly His Pro Phe Leu Phe Ser Ser Gln Cys Arg Asp Tyr Thr Asp Lys
50 55 60

Val Lys Phe Pro Gly Ala Ser Val Leu
65 70

<210> 3388
<211> 41
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3388
Met Leu Leu Val Leu Thr Val Phe Ser Phe His Lys His Cys Ser Gly
1 5 10 15

Lys Leu Val Leu Cys Ala Ala Gly Pro Phe Ala Tyr Val Xaa Thr Ile
20 25 30

Asn Gln Xaa Leu Asn Leu Lys Lys Lys
35 40

<210> 3389
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3389
Val Xaa Pro Cys Gly Cys Xaa Xaa
1 5

<210> 3390
<211> 40
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3390
Met Leu Xaa Leu Arg Leu Thr Ile Val Ile Ile His Ile Ser Val Ser
1 5 10 15

Ala Asp Leu Ser Leu Gln Tyr Phe Phe Ser Xaa Leu Xaa Asn Phe Leu
20 25 30

Xaa Leu Xaa Val Lys Pro Lys Cys
35 40

<210> 3391
<211> 37
<212> PRT
<213> Homo sapiens

<400> 3391
Met Lys Glu Met Asn Asp Phe Cys Gln Ser Leu Phe Ile Gln Ser Ser
1 5 10 15

His Ser Val Asn Cys Phe Leu Ile Arg Ser Ala Ser Ala Arg Thr Val
20 25 30

Leu Thr Ser Ile Ile
35

<210> 3392
<211> 91
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3392
Met Glu Lys Thr Leu Phe Leu Tyr His Tyr Leu Pro Xaa Leu Thr Phe
1 5 10 15

Gln Ile Leu Leu Leu Pro Val Val Leu Gln His Ile Ser Asp His Leu
20 25 30

Cys Arg Ser Gln Leu Gln Arg Xaa Ile Phe Ser Ala Leu Val Val Ala

```
        35                  40                  45

Trp Tyr Ser Ser Ala Cys His Val Ser Asn Thr Leu Arg Pro Leu Thr
     50                  55                  60

Tyr Gly Asp Lys Ser Leu Ser Pro His Glu Leu Lys Ala Leu Arg Trp
 65                  70                  75                  80

Lys Asp Ser Trp Asp Ile Leu Ile Arg Lys His
                85                  90
```

<210> 3393
<211> 48
<212> PRT
<213> Homo sapiens

<400> 3393
```
Met Ser Ser Arg Pro Leu Trp Arg Ala Arg Ala Leu Ile Trp Leu Thr
  1               5                  10                  15

Trp Gly Gln Pro Arg Thr Val Ser Phe Leu Arg Leu Thr Gly Cys Ser
             20                  25                  30

Arg Arg Pro Gln Ser Met Leu Gln Arg Val Lys Ser Ala Ser Glu Ala
         35                  40                  45
```

<210> 3394
<211> 43
<212> PRT
<213> Homo sapiens

<400> 3394
```
Phe Ser Tyr Cys Leu Arg Val Ile Ser Leu Cys Lys Pro Leu Ser Phe
  1               5                  10                  15

Val Leu Val Phe Phe Ser Ile Met Lys Leu Trp Tyr Cys Thr Arg Ser
             20                  25                  30

Val Val Arg Cys Ser Leu Val Ser Gly Leu Val
         35                  40
```

<210> 3395
<211> 38
<212> PRT
<213> Homo sapiens

<400> 3395
```
Met Ala Asn Leu Ala Ala Leu Ser Leu Cys Phe Leu Leu Phe Ser Phe
  1               5                  10                  15

Leu Pro Leu Phe Pro Thr Leu Leu Ser Ser Leu Gln Ser Thr Thr Cys
             20                  25                  30
```

Thr Pro Gly Ala Pro Gly
35

<210> 3396
<211> 19
<212> PRT
<213> Homo sapiens

<400> 3396
Met Trp Leu Met Met Gln Leu Leu Ser Phe Phe Val Phe Leu Cys Leu
1 5 10 15

Leu Tyr Leu

<210> 3397
<211> 19
<212> PRT
<213> Homo sapiens

<400> 3397
Met Trp Leu Met Met Gln Leu Leu Ser Phe Phe Val Phe Leu Cys Leu
1 5 10 15

Leu Tyr Leu

<210> 3398
<211> 19
<212> PRT
<213> Homo sapiens

<400> 3398
Met Trp Leu Met Met Gln Leu Leu Ser Phe Phe Val Phe Leu Cys Leu
1 5 10 15

Leu Tyr Leu

<210> 3399
<211> 134
<212> PRT
<213> Homo sapiens

<400> 3399
Met Glu Met Met Glu Ser Gln Thr Leu Leu Leu Thr Leu Leu Ser Val
1 5 10 15

Lys Met Glu Asn Asn Leu Ala Glu Phe Glu Arg Arg Ala Glu Lys Asn
20 25 30

Leu Leu Ile Met Cys Lys Glu Lys Glu Lys Leu Gln Lys Lys Ala His

```
        35                  40                  45

Glu Leu Lys Arg Arg Leu Leu Leu Ser Gln Arg Lys Arg Glu Leu Ala
     50                  55                  60

Asp Val Leu Asp Ala Gln Ile Glu Met Leu Ser Pro Phe Glu Ala Val
 65                  70                  75                  80

Ala Thr Arg Phe Lys Glu Gln Tyr Arg Thr Phe Ala Thr Ala Leu Asp
                85                  90                  95

Thr Thr Arg His Glu Leu Pro Val Lys Ser Ile His Leu Glu Gly Asp
            100                 105                 110

Gly Gln Gln Leu Leu Asp Ala Leu Gln Leu Glu Leu Val Thr Ile Gln
        115                 120                 125

Arg Leu Leu Gly Arg Thr
    130
```

WO 2004/063355 PCT/US2003/041174

<210> 3400
<211> 35
<212> PRT
<213> Homo sapiens

<400> 3400
Met Pro Leu Met Ser Leu Leu Val Thr Val His Phe Val Val Leu Ser
  1   5   10   15

Lys Cys Cys Ala Asn Ser Lys Pro Phe Leu Lys Phe Phe Ala Leu Ile
            20   25   30

Arg Val Pro
        35

<210> 3401
<211> 24
<212> PRT
<213> Homo sapiens

<400> 3401
Met His Ile Asn Phe Leu Phe Ser Phe Tyr Ser Thr Tyr Gln Leu His
  1   5   10   15

Ser Val Cys Phe Pro Lys Leu Val
            20

<210> 3402
<211> 39
<212> PRT
<213> Homo sapiens

<400> 3402
Met Asp Ser Leu Ala Trp Gly Gly Ile Phe Glu Leu His Phe Leu Gln
  1   5   10   15

Cys Ala Ser Pro Ser Gln Arg Ile Gln Gly Cys His Gln Leu Leu Leu
20 25 30

Glu Gly Ala Leu Cys Leu Val
35

<210> 3403
<211> 12
<212> PRT
<213> Homo sapiens

<400> 3403
Phe Phe His Ile Cys Ile Thr Ile Cys Ser Phe Ser
1 5 10

<210> 3404
<211> 13
<212> PRT
<213> Homo sapiens

<400> 3404
Met Glu Ala Glu Glu Ala Leu Leu Trp Ile Leu Leu Gln
1 5 10

<210> 3405
<211> 43
<212> PRT
<213> Homo sapiens

<400> 3405
Met Val Asn Asp Ser Leu Leu Tyr Phe Ser Phe Phe Phe Phe Phe Phe
1 5 10 15

Leu Trp Phe Ser Ser Trp Ile His Pro Leu Ile Leu Asn Gln Asn Val
20 25 30

Arg Ser Met Asn Tyr Glu Leu Lys Tyr Phe Ser
35 40

<210> 3406
<211> 17
<212> PRT
<213> Homo sapiens

<400> 3406
Gly Ile Val Leu Leu Ile Gly Val Leu Val Gln Val Ser Ala Val Asp
1 5 10 15

Asp

<210> 3407
<211> 74
<212> PRT
<213> Homo sapiens

<400> 3407
Met Glu Gln Val His Pro Gly Arg Thr Arg Thr Arg Leu His Cys Gly
1 5 10 15

Leu Glu Ile Gln Gly Cys Gln Arg Phe Leu Leu Cys Ala Phe Leu Ile
20 25 30

Ser Trp Leu Pro Gly Gly Ala Pro Gly Cys His Ser Pro Leu Leu Trp
35 40 45

Pro Tyr Ser Ile Phe His Ser Asn Ala Ser Leu Cys Gly Arg Ser Ser
50 55 60

Asp Asn Ser Ser Asp Gln Asp Phe Lys Ile
65 70

<210> 3408
<211> 435
<212> PRT
<213> Homo sapiens

<400> 3408
Met Gly His Asn Phe Gly Met Phe His Asp Asp Tyr Ser Cys Lys Cys
1 5 10 15

Pro Ser Thr Ile Cys Val Met Asp Lys Ala Leu Ser Phe Tyr Ile Pro
20 25 30

Thr Asp Phe Ser Ser Cys Ser Arg Leu Ser Tyr Asp Lys Phe Phe Glu
35 40 45

Asp Lys Leu Ser Asn Cys Leu Phe Asn Ala Pro Leu Pro Thr Asp Ile
50 55 60

Ile Ser Thr Pro Ile Cys Gly Asn Gln Leu Val Glu Met Gly Glu Asp
65 70 75 80

Cys Asp Cys Gly Thr Ser Glu Glu Cys Thr Asn Ile Cys Cys Asp Ala
85 90 95

Lys Thr Cys Lys Ile Lys Ala Thr Phe Gln Cys Ala Leu Gly Glu Cys
100 105 110

Cys Glu Lys Cys Gln Phe Lys Lys Ala Gly Met Val Cys Arg Pro Ala
115 120 125

Lys Asp Glu Cys Asp Leu Pro Glu Met Cys Asn Gly Lys Ser Gly Asn
130 135 140

Cys Pro Asp Asp Arg Phe Gln Val Asn Gly Phe Pro Cys His His Gly
145 150 155 160

Lys Gly His Cys Leu Met Gly Thr Cys Pro Thr Leu Gln Glu Gln Cys

EP 1 369 488 A2

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                165                 170                 175

Thr Glu Leu Trp Gly Pro Gly Thr Glu Val Ala Asp Lys Ser Cys Tyr
            180                 185                 190

Asn Arg Asn Glu Gly Gly Ser Lys Tyr Gly Tyr Cys Arg Arg Val Asp
        195                 200                 205

Asp Thr Leu Ile Pro Cys Lys Ala Asn Asp Thr Met Cys Gly Lys Leu
    210                 215                 220

Phe Cys Gln Gly Gly Ser Asp Asn Leu Pro Trp Lys Gly Arg Ile Val
225                 230                 235                 240

Thr Phe Leu Thr Cys Lys Thr Phe Asp Pro Glu Asp Thr Ser Gln Glu
                245                 250                 255

Ile Gly Met Val Ala Asn Gly Thr Lys Cys Gly Asp Asn Lys Val Cys
            260                 265                 270

Ile Asn Ala Glu Cys Val Asp Ile Glu Lys Ala Tyr Lys Ser Thr Asn
        275                 280                 285

Cys Ser Ser Lys Cys Lys Gly His Ala Val Cys Asp His Glu Leu Gln
    290                 295                 300

Cys Gln Cys Glu Glu Gly Trp Ile Pro Pro Asp Cys Asp Asp Ser Ser
305                 310                 315                 320

Val Val Phe His Phe Ser Ile Val Val Gly Val Leu Phe Pro Met Ala
                325                 330                 335

Val Ile Phe Val Val Val Ala Met Val Ile Arg His Gln Ser Ser Arg
            340                 345                 350

Glu Lys Gln Lys Lys Asp Gln Arg Pro Leu Ser Thr Thr Gly Thr Arg
        355                 360                 365

Pro His Lys Gln Lys Arg Lys Pro Gln Met Val Lys Ala Val Gln Pro
    370                 375                 380

Gln Glu Met Ser Gln Met Lys Pro His Val Tyr Asp Leu Pro Val Glu
385                 390                 395                 400

Gly Asn Glu Pro Pro Ala Ser Phe His Lys Asp Thr Asn Ala Leu Pro
                405                 410                 415

Pro Thr Val Phe Lys Asp Asn Pro Met Ser Thr Pro Lys Asp Ser Asn
            420                 425                 430

Pro Lys Ala
        435
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<210> 3409
<211> 32
<212> PRT
<213> Homo sapiens

<400> 3409

Met Lys Val Leu Ser Phe Leu Leu Cys Ile Arg Ile Ser Phe Leu Phe
1 5 10 15

Val Val Glu Ser Ile Val Arg Gly Ile Ser Lys Leu Asn Glu Val Asn
20 25 30

<210> 3410
<211> 32
<212> PRT
<213> Homo sapiens

<400> 3410
Met Lys Val Leu Ser Phe Leu Leu Cys Ile Arg Ile Ser Phe Leu Phe
1 5 10 15

Val Val Glu Ser Ile Val Arg Gly Ile Ser Lys Leu Asn Glu Val Asn
20 25 30

<210> 3411
<211> 27
<212> PRT
<213> Homo sapiens

<400> 3411
Met Leu His Ile Ile Gln Lys Leu Tyr Pro Asp His Leu Phe Leu Phe
1 5 10 15

Phe Ile Val Lys Tyr Leu Cys Phe Ile His Cys
20 25

<210> 3412
<211> 14
<212> PRT
<213> Homo sapiens

<400> 3412
Met Gly Ile Thr His Glu Tyr Leu Cys Val Cys Val Cys Val
1 5 10

<210> 3413
<211> 105
<212> PRT
<213> Homo sapiens

<400> 3413
Met Trp Gly Ala Phe Trp Asn Thr Leu Leu Cys Pro Val Ser Gly Ala
1 5 10 15

```
Glu Gly Tyr Arg Gln Ser Met Pro His Lys Pro Ala His Pro Arg Asp
             20                  25                  30

Thr Ser Thr Leu Cys Pro Ser Cys Met Tyr His Trp Gly Arg Asn Leu
         35                  40                  45

Gly Ser Val Phe Thr Thr Ala Ala Ala Trp Ser His Glu Phe Phe Pro
     50                  55                  60

Ser Ala Ala Asp Ser Leu Gln Gly Gly Ser Ser Leu Pro Pro Pro Leu
 65                  70                  75                  80

Leu Lys Leu Gln Ser Thr Gly Tyr Gly Ser Gly Trp Phe Pro Gln Gly
                 85                  90                  95

Ser Arg Tyr Val Gly Gly Glu Glu Asn
            100                 105
```

WO 2005/000891 PCT/US2004/018358

<210> 3414
<211> 36
<212> PRT
<213> Homo sapiens

<400> 3414
```
Met Lys Tyr Ser Cys Leu Lys Gly Ser Tyr Thr Val Phe Met Ala Ile
  1               5                  10                  15

Leu Ala Leu Leu Leu Val Val Cys Ile Phe Tyr Gln Arg Lys Pro Val
             20                  25                  30

Phe Arg Asp Gly
         35
```

<210> 3415
<211> 21
<212> PRT
<213> Homo sapiens

<400> 3415
```
Val Gly Ile Cys Leu Ser Phe Thr Gln Gly Trp Ser Trp Ser Phe Thr
  1               5                  10                  15

Cys Gln Phe Cys Leu
             20
```

<210> 3416
<211> 29
<212> PRT
<213> Homo sapiens

<400> 3416
```
Met Asp Ser Ala Thr Ala Pro Val Ala Ala Gly Asp Cys Gly Gln Trp
  1               5                  10                  15
```

Trp Thr Leu Leu Leu Cys Thr Cys Cys Arg Leu Phe Leu
20 25

<210> 3417
<211> 30
<212> PRT
<213> Homo sapiens

<400> 3417
Met Trp Gly Gly Gln Arg Val Cys Trp Ala Gly Phe Ala Phe Pro Ala
1 5 10 15

Gly Ala Thr Ala Val Leu Thr Asn Glu Val Cys Cys Gln Val
20 25 30

<210> 3418
<211> 51
<212> PRT
<213> Homo sapiens

<400> 3418
Gly Cys Glu Gly Leu Ala Ile Leu Leu Ser Trp Val His Val Ser Asp
1 5 10 15

Arg Asn Gly Ala Ala Trp Glu Arg Ser Pro Ser Phe Thr Phe Ser Leu
20 25 30

Leu Pro Pro Pro Pro Tyr Ser Lys Thr Val Pro Pro Thr Glu Gly Gln
35 40 45

Gly Leu Leu
50

<210> 3419
<211> 30
<212> PRT
<213> Homo sapiens

<400> 3419
Met Ile His Leu Gly Phe Leu Leu Pro Leu Ser Leu Val Trp Arg Arg
1 5 10 15

Arg Asp Gly Ile Gln Trp Thr Glu Glu Phe Ile Phe Gln Gly
20 25 30

<210> 3420
<211> 30
<212> PRT
<213> Homo sapiens

<400> 3420
Met Ile Ile Gln Leu Val Leu Ser Leu Pro Leu Phe Phe Leu Cys Cys
1 5 10 15

Asp Ser Val Thr Glu Tyr Glu Leu Val Ala Arg Val Leu Trp
20 25 30

<210> 3421
<211> 6
<212> PRT
<213> Homo sapiens

<400> 3421
Met Thr Tyr Met Val Ala
1 5

<210> 3422
<211> 39
<212> PRT
<213> Homo sapiens

<400> 3422
Met Ala Ile Glu Phe Tyr Val Phe Ala Phe Phe Val Leu Ile Glu Ile
1 5 10 15

Ile Pro Ser Ser Leu Ser Ala Tyr Leu Met Thr Pro Ala Phe Gln Ile
20 25 30

His Arg Phe Thr Phe Ser Ile
35

<210> 3423
<211> 56
<212> PRT
<213> Homo sapiens

<400> 3423
Met Pro Asn Asn Leu Ser Leu Phe Tyr Val Phe Ser Leu Ser Phe Leu
1 5 10 15

Ser Ser Phe Ile Pro Leu Ile Val Thr Ala Lys Lys Met Ser Val Pro
20 25 30

Val Thr Leu Pro Pro Leu Phe Ser Leu Ser Pro Ala Leu Trp Ser Gly
35 40 45

Pro Trp Ser Thr Ser Asn Ser Pro
50 55

<210> 3424
<211> 44
<212> PRT
<213> Homo sapiens

<400> 3424
Met His Gln Asn Val Leu Gly Arg Val Ser Trp Leu Arg Ile Gly Leu

1 5 10 15

Phe Glu Leu Phe Gln Trp Ala Leu Gly His Arg Gly Cys Pro Leu Leu
20 25 30

Ser Gly Ala Arg Ala Trp Gly Asp Glu Gly Arg Gly
35 40

<210> 3425
<211> 756
<212> PRT
<213> Homo sapiens

<400> 3425
Ala Arg Val His Cys Leu Lys Lys Ala Val Arg Leu Asp Ser Asn Asn
1 5 10 15

His Leu Tyr Trp Asn Ala Leu Gly Val Val Ala Cys Tyr Ser Gly Ile
20 25 30

Gly Asn Tyr Ala Leu Ala Gln His Cys Phe Ile Lys Ser Ile Gln Ser
35 40 45

Glu Gln Ile Asn Ala Val Ala Trp Thr Asn Leu Gly Val Leu Tyr Leu
50 55 60

Thr Asn Glu Asn Ile Glu Gln Ala His Glu Ala Phe Lys Met Ala Gln
65 70 75 80

Ser Leu Asp Pro Ser Tyr Leu Met Cys Trp Ile Gly Gln Ala Leu Ile
85 90 95

Ala Glu Ala Val Gly Ser Tyr Asp Thr Met Asp Leu Phe Arg His Thr
100 105 110

Thr Glu Leu Asn Met His Thr Glu Gly Ala Leu Gly Tyr Ala Tyr Trp
115 120 125

Val Cys Thr Thr Leu Gln Asp Lys Ser Asn Arg Glu Thr Glu Leu Tyr
130 135 140

Gln Tyr Asn Ile Leu Gln Met Asn Ala Ile Pro Ala Ala Gln Val Ile
145 150 155 160

Leu Asn Lys Tyr Val Glu Arg Ile Gln Asn Tyr Ala Pro Ala Phe Thr
165 170 175

Met Leu Gly Tyr Leu Asn Glu His Leu Gln Leu Lys Lys Glu Ala Ala
180 185 190

Asn Ala Tyr Gln Arg Ala Ile Leu Leu Leu Gln Thr Ala Glu Asp Gln
195 200 205

Asp Thr Tyr Asn Val Ala Ile Arg Asn Tyr Gly Arg Leu Leu Cys Ser
210 215 220

Thr Gly Glu Tyr Asp Lys Ala Ile Gln Ala Phe Lys Ser Thr Pro Leu
225 230 235 240

Glu Val Leu Glu Asp Ile Ile Gly Phe Ala Leu Ala Leu Phe Met Lys
245 250 255

Gly Leu Tyr Lys Glu Ser Ser Lys Ala Tyr Glu Arg Ala Leu Ser Ile
260 265 270

Val Glu Ser Glu Gln Asp Lys Ala His Ile Leu Thr Ala Leu Ala Ile
275 280 285

Thr Glu Tyr Lys Gln Gly Lys Thr Asp Val Ala Lys Thr Leu Leu Phe
290 295 300

Lys Cys Ser Ile Leu Lys Glu Pro Thr Thr Glu Ser Leu Gln Ala Leu
305 310 315 320

Cys Ala Leu Gly Leu Ala Met Gln Asp Ala Thr Leu Ser Lys Ala Ala
325 330 335

Leu Asn Glu Leu Leu Lys His Ile Lys His Lys Asp Ser Asn Tyr Gln
340 345 350

Arg Cys Leu Leu Thr Ser Ala Ile Tyr Ala Leu Gln Gly Arg Ser Val
355 360 365

Ala Val Gln Lys Gln Ile Ser Lys Ala Val His Ser Asn Pro Gly Asp
370 375 380

Pro Ala Leu Trp Ser Leu Leu Ser Arg Val Val Ala Gln Tyr Ala Gln
385 390 395 400

Arg Asn Ala Lys Gly Gly Val Val Ala Gly Asn Val Ala His Ile Leu
405 410 415

Asp Ser Asn His Gly Lys Lys Ala Leu Leu Tyr Thr Ala Val Asn Gln
420 425 430

Leu Ala Met Gly Ser Ser Ser Ala Glu Asp Glu Lys Asn Thr Ala Leu
435 440 445

Lys Thr Ile Gln Lys Ala Ala Leu Leu Ser Pro Gly Asp Pro Ala Ile
450 455 460

Trp Ala Gly Leu Met Ala Ala Cys His Ala Asp Asp Lys Leu Ala Leu
465 470 475 480

Met Asn Asn Thr Gln Pro Lys Arg Ile Asp Leu Tyr Leu Ala Leu Leu
485 490 495

Ser Ala Val Ser Ala Ser Ile Lys Asp Glu Lys Phe Phe Glu Asn Tyr
500 505 510

Asn Gln Ser Leu Glu Lys Trp Ser Leu Ser Gln Ala Val Thr Gly Leu
515 520 525

Ile Asp Thr Gly Arg Ile Ser Glu Ala Glu Thr Leu Cys Thr Lys Asn
530 535 540

Leu Lys Ser Asn Pro Asp Gln Pro Ala Val Ile Leu Leu Leu Arg Gln
545 550 555 560

Val Gln Cys Lys Pro Leu Pro Glu Ser Gln Lys Pro Leu Pro Asp Ala

565 570 575

Val Leu Glu Glu Leu Gln Lys Thr Val Met Ser Asn Ser Thr Ser Val
580 585 590

Pro Ala Trp Gln Trp Leu Ala His Val Tyr Gln Ser Gln Gly Met Met
595 600 605

Arg Ala Ala Glu Met Cys Tyr Arg Lys Ser Leu Gln Leu Ala Ser Gln
610 615 620

Arg Gly Ser Trp Ser Gly Lys Leu Ser Ser Leu Leu Arg Leu Ala Leu
625 630 635 640

Leu Ala Leu Lys Val Cys Met Ala Asn Ile Ser Asn Asp His Trp Pro
645 650 655

Ser Leu Val Gln Glu Ala Thr Thr Glu Ala Leu Lys Leu Cys Phe Cys
660 665 670

Pro Leu Ala Val Leu Leu Gln Ala Leu Leu Gln Phe Lys Arg Lys Met
675 680 685

Gly Ala Arg Glu Thr Arg Arg Leu Leu Glu Arg Val Val Tyr Gln Pro
690 695 700

Gly Tyr Pro Lys Ser Ile Ala Ser Thr Ala Arg Trp Tyr Leu Leu Arg
705 710 715 720

His Leu Tyr Ala Lys Asp Asp Tyr Glu Leu Ile Asp Val Leu Val Asn
725 730 735

Asn Ala Lys Thr His Gly Asp Thr Arg Ala Leu Glu Leu Asn Gln Arg
740 745 750

Leu Ser Ser Gln
755

<210> 3426
<211> 81
<212> PRT
<213> Homo sapiens

<400> 3426
Met Ala Ala Arg Val Gly Ala Phe Leu Lys Asn Ala Trp Asp Lys Glu
1 5 10 15

Pro Val Leu Val Val Ser Phe Val Val Gly Gly Leu Ala Val Ile Leu
20 25 30

Pro Pro Leu Ser Pro Tyr Phe Lys Tyr Ser Val Met Ile Asn Lys Ala
35 40 45

Thr Pro Tyr Asn Tyr Pro Ala Ala Gly Glu Lys Gly His Arg Ile Glu
50 55 60

Leu Ser Ser His Ser Thr Gln Arg Gln Ser Cys Pro Gly Ala Arg Arg
65 70 75 80

Ser

<210> 3427
<211> 29
<212> PRT
<213> Homo sapiens

<400> 3427
Met Arg Leu Gln Ser Cys Ser Ser Gln Thr Ala Ala Leu Leu Leu Ser
1 5 10 15

Phe Tyr Leu Pro Glu Ser Cys Ala Ser Gln Ser Pro Gly
20 25

<210> 3428
<211> 39
<212> PRT
<213> Homo sapiens

<400> 3428
Met Cys Thr Leu Leu Ile Phe Phe Leu Ile Leu Pro His Trp Trp Leu
1 5 10 15

Gly Thr Trp Glu Arg Glu Gln Ala Phe Leu His Gly Pro Ser Leu Gly
20 25 30

Cys Gly Glu Gln Arg Pro Met
35

<210> 3429
<211> 39
<212> PRT
<213> Homo sapiens

<400> 3429
Met Cys Thr Leu Leu Ile Phe Phe Leu Ile Leu Pro His Trp Trp Leu
1 5 10 15

Gly Thr Trp Glu Arg Glu Gln Ala Phe Leu His Gly Pro Ser Leu Gly
20 25 30

Cys Gly Glu Gln Arg Pro Met
35

<210> 3430
<211> 39
<212> PRT
<213> Homo sapiens

<400> 3430
Met Cys Thr Leu Leu Ile Phe Phe Leu Ile Leu Pro His Trp Trp Leu
1 5 10 15

Gly Thr Trp Glu Arg Glu Gln Ala Phe Leu His Gly Pro Ser Leu Gly
20 25 30

Cys Gly Glu Gln Arg Pro Met
35

<210> 3431
<211> 32
<212> PRT
<213> Homo sapiens

<400> 3431
Met His Ile Leu Asn Val Cys Leu Tyr Phe Phe Ile Leu Asn Ile Ile
1 5 10 15

Phe Val Pro Leu Cys Phe Thr Ser Asn Ile Tyr Leu Tyr Lys Cys Val
20 25 30

<210> 3432
<211> 10
<212> PRT
<213> Homo sapiens

<400> 3432
Met Cys Cys Cys Met Arg Leu His Cys Cys
1 5 10

<210> 3433
<211> 92
<212> PRT
<213> Homo sapiens

<400> 3433
Met Arg Arg Arg Met Arg Met Leu Ala Leu Trp Gln Gln Leu Leu His
1 5 10 15

Pro Ser Gly Asp Pro Glu Gln Thr Gln Ser Trp Ser Val Trp Lys Val
20 25 30

Pro Ser Ser Gly Gly Ser Cys Arg Cys Arg Ser Ser Gly Thr Gln Ser
35 40 45

Ser Ile Gly Thr Arg Cys Ser Ala Arg Trp Ala Gly Val Val Gly Ser
50 55 60

Arg Pro Gln His His Gly Cys Gln Leu Pro Gly Trp Thr Lys Gln Gly
65 70 75 80

Ala Thr Ser Pro Phe Pro Arg Phe Gln Ser Ser Leu
85 90

<210> 3434
<211> 103
<212> PRT
<213> Homo sapiens

<400> 3434
Met Leu Gln Asn Ser Val Tyr Val Asn Phe Leu Leu Thr Gly Leu Val
1 5 10 15

Ala Gln Leu Ala Cys His Pro Gln Pro Leu Leu Arg Ser Phe Leu Leu
20 25 30

Asn Thr Asn Met Val Phe Gln Pro Ser Val Lys Ser Leu Leu Gln Val
35 40 45

Leu Gly Ser Val Lys Asn Lys Ile Glu Asn Phe Ala Ala Ser Gln Glu
50 55 60

Asp Phe Pro Ala Leu Leu Ser Lys Ala Lys Lys Tyr Leu Ile Ala Arg
65 70 75 80

Gly Lys Leu Asp Trp Ala Glu Gly Pro Ala Ala Gly Pro Ala Pro Arg
85 90 95

Arg Ser Asp Pro Leu Glu Pro
100

<210> 3435
<211> 30
<212> PRT
<213> Homo sapiens

<400> 3435
Met Lys Ala Val Gly Phe Val Phe Leu Phe Thr Thr Ile Leu Ser His
1 5 10 15

Ile Leu Leu Trp Ala Phe Val Val Tyr Phe Lys Lys Thr Val
20 25 30

<210> 3436
<211> 93
<212> PRT
<213> Homo sapiens

<400> 3436
Met Leu Leu Ile Val Val Ser Val Cys Thr Ala Thr Gly Ala Trp Asn
1 5 10 15

Trp Leu Ile Asp Pro Glu Thr Gln Lys Val Ser Phe Phe Thr Ser Leu
20 25 30

Trp Asn His Pro Phe Phe Thr Ile Ser Cys Ile Thr Leu Ile Gly Leu
35 40 45

Phe Phe Ala Gly Ile His Lys Arg Val Val Ala Pro Ser Ile Ile Ala

50 55 60

Ala Arg Cys Arg Thr Val Leu Ala Glu Tyr Asn Met Ser Cys Asp Asp
65 70 75 80

Thr Gly Lys Leu Ile Leu Lys Pro Arg Pro His Val Gln
85 90

<210> 3437
<211> 46
<212> PRT
<213> Homo sapiens

<400> 3437
Met Leu Phe Arg Phe Val Phe Ile Tyr Leu Phe Gly Pro Ala Lys Leu
1 5 10 15

Pro Ser Leu Gln Arg Pro Trp Thr Arg Ile Gln Pro Val Pro Leu Cys
20 25 30

Pro Thr Thr Leu His Ser Gln Arg Leu Ala Met Gln Pro Thr
35 40 45

<210> 3438
<211> 161
<212> PRT
<213> Homo sapiens

<400> 3438
Met Trp Pro Gly Arg Ile Met Thr Val Thr Val Val Leu Leu Cys Cys
1 5 10 15

Ser Thr Ala Ser Ile Trp Pro Cys Leu Ser His Ser Ala Ser Pro Ser
20 25 30

Arg Thr Cys Pro Asn Phe Val Gly Arg Ser Thr Arg Ser Cys Val Thr
35 40 45

Ala Asn Ser Leu Cys Glu Pro Arg Thr Pro Asp Pro Lys Pro Ile Asn
50 55 60

Gly Lys Gly Asp Met Gly Val Pro Ser Gln Glu Thr Pro Val Pro Phe
65 70 75 80

Leu Ser Cys Leu Phe Pro Leu Thr Ser Leu Trp Phe Phe Ile Phe Lys
85 90 95

Cys Phe Asn Phe Cys Ile Phe Phe Ser Leu Arg Glu Tyr Leu Leu Ile
100 105 110

Ser Asp Val Gln Gly Val Ala Thr Glu Lys Pro Leu Ser Ser Ser Val
115 120 125

Cys Arg Gly Val Trp Pro Cys Gly Leu Gly Gly Ala Val Ile Leu Pro
130 135 140

Leu Pro Arg Ala Gly Ser Arg Lys Ser Val Leu Gly Val Val Gly Gly

145 150 155 160

Gln

<210> 3439
<211> 11
<212> PRT
<213> Homo sapiens

<400> 3439
Met Ser Pro Gly Gly Ile Cys Asn Cys Ile Ile
1 5 10

<210> 3440
<211> 57
<212> PRT
<213> Homo sapiens

<400> 3440
Met Trp Leu Leu Lys Pro Ser Ala His Ser Pro Val His Val Leu Val
1 5 10 15

Leu Leu Phe Pro Arg Gly Trp Ser Gln Pro Gly Thr His Lys Arg Gln
20 25 30

Ile Leu Val Asn Ala Ala Ser Leu Pro Gly Gly Cys Leu Leu Pro Trp
35 40 45

Ile Trp Ser Gly Ala Ala Leu Arg Phe
50 55

<210> 3441
<211> 68
<212> PRT
<213> Homo sapiens

<400> 3441
Ile Cys Leu Arg Leu Cys Leu Cys Ala Arg His Arg Leu Gly Ala Gly
1 5 10 15

Ala Leu Arg Leu Arg Arg Leu Trp Arg Gly Ser Glu Thr Arg Gly Pro
20 25 30

Ala Gly Gly Ser Leu Cys Val Ser Arg His Cys Ser Pro Ser His Pro
35 40 45

Gly Gly Ser Leu Glu Trp Val Leu Gln Leu Pro Ser Trp Val Arg Ser
50 55 60

Glu Ala Gly Arg
65

<210> 3442
<211> 3
<212> PRT
<213> Homo sapiens

<400> 3442
Ala Cys Val
1

<210> 3443
<211> 27
<212> PRT
<213> Homo sapiens

<400> 3443
Met Asn Val Ile Ile Val Leu Val His Ala Leu Cys Pro Trp Cys Arg
1 5 10 15

Gly Cys Pro His Trp Gly Pro Leu Val Pro Pro
20 25

<210> 3444
<211> 34
<212> PRT
<213> Homo sapiens

<400> 3444
Met Gln Val Gln Thr Thr Val Leu Leu Leu Gln Ala Asp Phe Phe Arg
1 5 10 15

Val Arg Ala Pro Cys Gly Glu Leu Arg Ala Ala Ser Ile Arg Ala Lys
20 25 30

Pro Trp

<210> 3445
<211> 50
<212> PRT
<213> Homo sapiens

<400> 3445
Met Ala Gln Ile Thr Trp Ile His Leu Leu Ser Val Val Ile Cys Ser
1 5 10 15

Ala Pro Pro Arg Arg Leu His Arg Gln His Ser Ala Val Gln Ala Trp
20 25 30

Ala Ala His Arg Glu His Val Gln Pro Ser Leu Thr Ser Ser Gly Arg
35 40 45

Met Pro
50

<210> 3446
<211> 26
<212> PRT
<213> Homo sapiens

<400> 3446
Met Arg Ser Pro Pro His Phe Ile Phe Phe Phe Leu Lys Cys Pro Gly
1 5 10 15

Leu Gly Trp Gly Gly Gln Pro Pro Gly Val
20 25

<210> 3447
<211> 50
<212> PRT
<213> Homo sapiens

<400> 3447
Met Gly Val Arg Ile Cys Gly Val Gln Ala Ser Cys Thr Cys Val His
1 5 10 15

Leu Cys Gly Val Trp Val Tyr Leu Asp Cys Gly Leu Arg Leu Pro Tyr
20 25 30

Arg Thr Leu Leu Leu Pro Pro Pro Gln Gly Ile Thr Gly Pro Cys Ser
35 40 45

Ser Cys
50

<210> 3448
<211> 27
<212> PRT
<213> Homo sapiens

<400> 3448
Met Asn Ile Pro Ile Tyr Val Ile Gly Tyr Leu Phe Leu Ser Ser Leu
1 5 10 15

Glu Leu Cys Thr Gln Thr Lys Thr Ile Ser Gly
20 25

<210> 3449
<211> 12
<212> PRT
<213> Homo sapiens

<400> 3449
Gly Phe Leu Phe His Leu Leu His Phe Phe Tyr Phe
1 5 10

<210> 3450

<211> 43
<212> PRT
<213> Homo sapiens

<400> 3450
Met Glu Ala Phe Leu His Leu Trp Pro Asp Gly Ser Leu Gly Asp Trp
1 5 10 15

Lys Ser Phe Ser Cys His Cys Tyr Trp Gly Trp Ala Gly Pro Thr Cys
20 25 30

Gln Glu Pro Arg Pro Gly Pro Lys Glu Ala Val
35 40

<210> 3451
<211> 101
<212> PRT
<213> Homo sapiens

<400> 3451
Met Gln Gly Ser Gly Ser Gln Phe Arg Ala Cys Leu Leu Cys Leu Cys
1 5 10 15

Phe Ser Cys Pro Cys Ser Pro Gly Gly Pro Arg Trp Asn Ser Arg Gln
20 25 30

Gly Gly Arg Arg Phe Pro Lys Thr Cys Arg Ala Ile Ser Gln Asn Leu
35 40 45

Val Phe Lys Tyr Lys Thr Phe Cys Pro Val Arg Tyr Met Gln Pro His
50 55 60

Arg Ser Ser Leu Cys Leu His Phe Thr Ser Tyr Val Phe Ile Leu Ser
65 70 75 80

Thr Trp Gly Ser Leu Arg Thr Tyr Ser Thr Asp Leu Lys Lys Lys Lys
85 90 95

Lys Lys Lys Lys Lys
100

<210> 3452
<211> 21
<212> PRT
<213> Homo sapiens

<400> 3452
Met Asn Thr Pro Gly Leu Ser Leu Phe Leu Leu Arg Ile Ser Leu Leu
1 5 10 15

Leu Met Cys Gly Cys
20

<210> 3453
<211> 27

<212> PRT
<213> Homo sapiens

<400> 3453
Met Thr Ile Ala Ile Val Ile Leu Ile Ile Phe Pro Thr Val Lys Asn
1 5 10 15

Leu Ala Leu Ser Ser Glu Ile Val Met Ala Leu
20 25

<210> 3454
<211> 37
<212> PRT
<213> Homo sapiens

<400> 3454
Met Phe Ser Arg Leu Tyr Lys Gln Arg Leu Leu Leu Leu Leu Trp Tyr
1 5 10 15

Ser His Phe Gly Gly Gly Gly Ser Arg Leu Glu Arg Ile Ser Phe Ala
20 25 30

Leu Lys Ser Arg Met
35

<210> 3455
<211> 47
<212> PRT
<213> Homo sapiens

<400> 3455
Met Met Val Pro Gly Gly Pro Ala Pro Leu Leu Leu Cys Phe Leu Phe
1 5 10 15

Leu Leu Phe Trp Tyr Leu Gly Glu Leu Ile Thr Lys Ser Leu Leu Arg
20 25 30

Val Met Glu Ser Tyr Pro Ser Ile Pro Gln Ala Val Phe Gln Arg
35 40 45

<210> 3456
<211> 47
<212> PRT
<213> Homo sapiens

<400> 3456
Met Phe Lys Asp Ala Gly Leu Phe Leu Leu Trp Gly Pro Phe Pro Gly
1 5 10 15

Val Pro Val Ser Pro Ser Pro Gly Gly Ser Ala Pro Thr Arg Val Gly
20 25 30

Gly Ile Ser Ser Gln Arg Leu Ala Arg Pro His Leu Gly Glu Ala
35 40 45

<210> 3457
<211> 26
<212> PRT
<213> Homo sapiens

<400> 3457
Met Thr Val Val Leu Leu Leu Leu His Gly Ile Thr Val Tyr Tyr Val
1 5 10 15

Val Gly Lys Tyr Ser Leu Leu Asn Pro Thr
20 25

<210> 3458
<211> 26
<212> PRT
<213> Homo sapiens

<400> 3458
Met Thr Val Val Leu Leu Leu Leu His Gly Ile Thr Val Tyr Tyr Val
1 5 10 15

Val Gly Lys Tyr Ser Leu Leu Asn Pro Thr
20 25

<210> 3459
<211> 26
<212> PRT
<213> Homo sapiens

<400> 3459
Met Thr Val Val Leu Leu Leu Leu His Gly Ile Thr Val Tyr Tyr Val
1 5 10 15

Val Gly Lys Tyr Ser Leu Leu Asn Pro Thr
20 25

<210> 3460
<211> 26
<212> PRT
<213> Homo sapiens

<400> 3460
Met Thr Val Val Leu Leu Leu Leu His Gly Ile Thr Val Tyr Tyr Val
1 5 10 15

Val Gly Lys Tyr Ser Leu Leu Asn Pro Thr
20 25

<210> 3461
<211> 37
<212> PRT

<213> Homo sapiens

<400> 3461
Met Gly Met Leu Phe Leu Leu Leu Cys Ile His Arg Ser Leu Val Lys
1 5 10 15

Ala Asn Leu Pro Thr Gln Ile Ser Lys Val Val Ala Ile Lys Thr Asp
20 25 30

Thr Ser Gln Arg Lys
35

<210> 3462
<211> 19
<212> PRT
<213> Homo sapiens

<400> 3462
Met Ala Val Phe Leu Tyr Phe Asp Phe Cys Ile Ser Ile Leu Ile Phe
1 5 10 15

Leu Val Met

<210> 3463
<211> 90
<212> PRT
<213> Homo sapiens

<400> 3463
Pro Leu Leu Leu Ala Leu Leu Ser Leu Ala Leu Cys Arg Gly Arg Val
1 5 10 15

Val Arg Val Pro Thr Ala Thr Leu Val Arg Val Val Gly Thr Glu Leu
20 25 30

Val Ile Pro Cys Asn Val Ser Asp Tyr Asp Gly Pro Ser Glu Gln Asn
35 40 45

Phe Asp Trp Ser Phe Ser Ser Leu Gly Ser Ser Phe Val Glu Leu Ala
50 55 60

Ser Thr Trp Glu Val Gly Phe Pro Ala Gln His Trp Pro Phe Gly Ser
65 70 75 80

Ile Pro Val Gly Phe Ser Glu Ala Arg Trp
85 90

<210> 3464
<211> 40
<212> PRT
<213> Homo sapiens

<400> 3464
Met Gly Gln Val Val Arg Thr Ala Tyr Gln Glu His Val Val Phe Ser

```
  1               5                  10                  15

Leu Phe Phe Lys Ile Ile Ile Leu Ser Cys Val Phe Ser Thr Ile Leu
             20                  25                  30

Val Lys Ile Ala Lys Gln Phe Val
         35                  40
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<210> 3465
<211> 35
<212> PRT
<213> Homo sapiens

<400> 3465

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Met Gly Thr Ile Arg Leu Leu Gln Ile Gly Leu Ser Leu Pro Phe Phe
  1               5                  10                  15

Thr Phe Leu Leu Ala Asn Gln Ser Gly Phe Arg Lys Pro Phe Val Ile
             20                  25                  30

Cys Glu Lys
         35
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<210> 3466
<211> 32
<212> PRT
<213> Homo sapiens

<400> 3466

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Met Glu Leu Met Asn Val Arg Thr Arg Leu Trp Arg Val Leu Ser Val
  1               5                  10                  15

Arg Phe Leu Gly Phe Ile His Val Val Val Tyr Asp Leu Leu Pro Cys
             20                  25                  30
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<210> 3467
<211> 34
<212> PRT
<213> Homo sapiens

<400> 3467

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Met Phe Thr Phe Ile Ser Met Phe Thr Phe Leu Val Thr Leu Thr Cys
  1               5                  10                  15

Trp Leu Asn Thr Ser Asn Ser Pro Val Glu Gly Ser Pro Pro Gly Arg
             20                  25                  30

Lys Gly
```

<210> 3468
<211> 74
<212> PRT
<213> Homo sapiens

<400> 3468
Met Asn Lys Thr Phe His Pro Leu Lys His Phe Pro Val Leu Arg Phe
  1   5   10   15

Leu Phe Val Phe Val Val Ser Ser Pro Cys Tyr Pro Phe Cys Pro Phe
             20   25   30

Ser Leu Thr Met Val Ile Trp Ser Leu Gly Ser Tyr Gln Ser Pro Arg
         35   40   45

Asp Ile Leu Gln Ser Leu Ser Pro Phe Trp Val Asp Phe Ile Leu Phe
     50   55   60

Tyr Phe Val Phe Phe Lys Lys Ile Thr Phe
 65   70

<210> 3469
<211> 24
<212> PRT
<213> Homo sapiens

<400> 3469
Gly Thr Arg Ile Trp Gly Val Val Cys Leu Phe Leu Glu His Arg Val
  1   5   10   15

Ala Trp Pro Cys Trp Asn Asp Lys
             20

<210> 3470
<211> 38
<212> PRT
<213> Homo sapiens

<400> 3470
Met Lys Ile Lys Asn Val Ala Ala Val Ile Cys Leu Val Ile Pro Leu
  1   5   10   15

Leu Leu Phe Phe Ser Leu Lys Lys Gln Lys Arg Gly Leu Gly Ile Phe
             20   25   30

Ile Leu Met Gln Lys Phe
         35

<210> 3471
<211> 59
<212> PRT
<213> Homo sapiens

<400> 3471
Met Leu Trp Ser Leu Ala Ser Tyr Ile Val Asn Leu Ala Val Lys Val

1 5 10 15

Leu Cys Leu Cys Lys Gly Arg Phe Val Leu Val Gln Asn Cys Pro Cys
20 25 30

Leu Ser Lys Gln Val Cys Leu Ile Leu Ser Ser Ile Ser Gly Gly Tyr
35 40 45

Cys Trp His Lys Leu Lys Val His Pro Leu Thr
50 55

<210> 3472
<211> 65
<212> PRT
<213> Homo sapiens

<400> 3472
Met Ile Gly Leu Ile Cys Leu Gly Met Gly Ser Ala Ala Leu Tyr Leu
1 5 10 15

Leu Arg Leu Ala Leu Arg Ser Pro Asp Val Cys Trp Asp Arg Lys Asn
20 25 30

Asn Pro Glu Pro Trp Asn Arg Leu Ser Pro Asn Asp Gln Tyr Lys Phe
35 40 45

Leu Ala Val Ser Thr Asp Tyr Lys Lys Leu Lys Lys Asp Arg Pro Asp
50 55 60

Phe
65

<210> 3473
<211> 31
<212> PRT
<213> Homo sapiens

<400> 3473
Met Cys Trp Ser Ser Ser Val Leu Phe Phe Phe His Trp Pro Val Cys
1 5 10 15

Leu Ser Phe Val Tyr Tyr His Gln Ala Ile Thr Leu Asp Ser Trp
20 25 30

<210> 3474
<211> 35
<212> PRT
<213> Homo sapiens

<400> 3474
Met His Ile Cys Thr Phe Tyr Leu Ile Ile Leu Phe Trp Glu Ile Val
1 5 10 15

Ile Cys Cys Phe Val Cys Leu Leu Arg Glu Ala Arg Arg Arg Ile Tyr
20 25 30

Lys Cys Glu
35

<210> 3475
<211> 36
<212> PRT
<213> Homo sapiens

<400> 3475
Met Ser Gln Thr Trp Pro His Pro Phe Ile Cys Tyr Cys Leu Ser Trp
1 5 10 15

Phe Cys Thr Thr Thr Ala Glu Leu Asn Arg Cys Ser Arg Ser Phe Thr
20 25 30

Glu Lys Val Phe
35

<210> 3476
<211> 66
<212> PRT
<213> Homo sapiens

<400> 3476
Met Leu Lys Cys Gly Phe Met Lys Tyr Val Val Phe Leu Ser Val Leu
1 5 10 15

Val Ser Phe Leu Glu Met Cys Lys Ser Glu Lys His Thr Asn His Lys
20 25 30

Ser Gly Ile His His Lys Pro Lys Lys Lys Lys Lys Lys Lys Lys Lys
35 40 45

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
50 55 60

Lys Lys
65

<210> 3477
<211> 24
<212> PRT
<213> Homo sapiens

<400> 3477
Met Asp Phe Thr Val Glu Gly Ser Ser Ile His Leu Trp Leu Leu Phe
1 5 10 15

Asn Leu Val Leu Leu Asp Phe Val
20

<210> 3478

<211> 37
<212> PRT
<213> Homo sapiens

<400> 3478
Met Ala Gln Trp His Ser Gly Ser Ser Phe Leu Phe Phe Ile Leu Gly
1 5 10 15

Trp Asn Leu Lys Val Val Cys Ser Ser Gly Phe Gly Leu Ile Phe Glu
20 25 30

Ala Thr Leu Pro Ser
35

<210> 3479
<211> 35
<212> PRT
<213> Homo sapiens

<400> 3479
Met Leu Phe Phe Asn Leu Phe Cys Tyr Leu Gly Ser Val Leu Ile Ser
1 5 10 15

Gly Gln Ile Phe Thr Val Leu Ser Gln Asn Ile Thr Lys Arg Arg Val
20 25 30

Thr Thr Thr
35

<210> 3480
<211> 30
<212> PRT
<213> Homo sapiens

<400> 3480
Phe Phe Phe Phe Ser Ala Phe Gln His Leu Phe His Gly Met Ser Ala
1 5 10 15

Gln His Phe His Glu Leu Pro Gln Gly Tyr Ile Ser Thr Lys
20 25 30

<210> 3481
<211> 111
<212> PRT
<213> Homo sapiens

<400> 3481
Trp Leu Leu Phe Arg Ser Leu Gln Arg Ala Pro Ser Trp Ser Phe Pro
1 5 10 15

Ser Asn Leu Gly Thr Lys Thr Ala Asp Leu Lys Gly Ala Ser Glu Leu
20 25 30

Pro Thr Pro Cys His Glu Cys Arg Glu Asp Asn Asp Gly Glu Gly His
35 40 45

Ala Arg Pro Gln Ser Gly Met Lys Pro Leu Thr Glu Gly Met Arg Lys
50 55 60

Asn Gly Thr Trp Leu Gln Ala Thr Ala Ala Thr Thr Arg Asp Cys Gly
65 70 75 80

Val Asn Pro Glu Glu Ala Asp Ser Ala Phe Ser Leu Leu Ala Thr Cys
85 90 95

Ser Phe Tyr Asp His Ala Leu His Leu Trp Glu Trp Glu Gly Asn
100 105 110

<210> 3482
<211> 32
<212> PRT
<213> Homo sapiens

<400> 3482
Lys Phe Gln Thr Ala Val Ile Ile Phe Tyr Phe Cys His Phe Ser Ser
1 5 10 15

Ser Asn Arg Gly Pro Met Gln Gln Glu His Lys Cys Glu Ile Met Gly
20 25 30

<210> 3483
<211> 113
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (112)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3483
Asn Ser Ile Leu His Leu Pro Phe Trp Ile Glu Leu Leu Lys Ala Arg
1 5 10 15

Thr Val Leu Leu Thr Leu Ser Ser Ser Trp Cys Leu Ala Pro Arg Cys
20 25 30

Ser Arg Asn Ile Cys Met Ile Glu Leu Lys Leu Lys Val Ala Val Asn
35 40 45

Leu Phe Glu Asp Tyr Ser Gly Asn Ser Val Tyr Gln Arg Ile Lys Ser
50 55 60

Leu Lys Ser Glu Ser Thr Asn Ser Arg Arg Ser Trp Gly Met Val Pro
65 70 75 80

Ser Lys Asn Arg Lys Asp Gln Lys Ser Gln Glu Leu Thr Ala Tyr Gly
85 90 95

Gly Gly Gly Asn Asn Gly Leu Arg Arg Val Asp Pro Gln Gly Leu Xaa
100 105 110

Asn

<210> 3484
<211> 172
<212> PRT
<213> Homo sapiens

<400> 3484
Pro Val Cys Gly Gly Phe Gly Val Leu Trp Ala Trp Leu Cys Thr Gly
1 5 10 15

Arg Trp Thr Leu Leu Trp Ser Ser Ser Phe Pro Tyr Pro Gly Ser Asp
20 25 30

Val Gly Arg Leu Gly Gly Pro Val Ser Ser Pro Pro Phe Ala Leu Ser
35 40 45

Cys Pro Phe Pro Leu Ser Pro Gly Arg Cys Leu Ala Arg Leu Arg Pro
50 55 60

Pro Ser Arg Gln Pro Gly Cys Glu Leu Ser Leu Ser Leu Phe Pro Leu
65 70 75 80

Val Gly Lys Trp Pro Phe Pro Gln His Leu Leu Pro Gly Pro Arg Gly
85 90 95

Thr His Leu Phe Trp Ser Ser Ala Trp Pro Ser Val Ser Leu Gly Lys
100 105 110

Gly Lys Glu Gly Trp Thr Ala Leu Ile Arg Ala Gly Ser Val Cys Ser
115 120 125

Ser Gly Gln Pro Glu Cys Gln Arg Cys Thr Gly Met Trp Cys Val Ala
130 135 140

Pro Gly Pro Arg His Leu Cys Phe Gly Gly Phe Leu Pro Cys Leu His
145 150 155 160

Thr Cys Gln Gly Arg Gly Asp Ser Lys Val Gly Gly
165 170

<210> 3485
<211> 172
<212> PRT
<213> Homo sapiens

<400> 3485
Pro Val Cys Gly Gly Phe Gly Val Leu Trp Ala Trp Leu Cys Thr Gly
1 5 10 15

Arg Trp Thr Leu Leu Trp Ser Ser Ser Phe Pro Tyr Pro Gly Ser Asp
20 25 30

Val Gly Arg Leu Gly Gly Pro Val Ser Ser Pro Pro Phe Ala Leu Ser
35 40 45

Cys Pro Phe Pro Leu Ser Pro Gly Arg Cys Leu Ala Arg Leu Arg Pro
50 55 60

Pro Ser Arg Gln Pro Gly Cys Glu Leu Ser Leu Ser Leu Phe Pro Leu
65 70 75 80

Val Gly Lys Trp Pro Phe Pro Gln His Leu Leu Pro Gly Pro Arg Gly
85 90 95

Thr His Leu Phe Trp Ser Ser Ala Trp Pro Ser Val Ser Leu Gly Lys
100 105 110

Gly Lys Glu Gly Trp Thr Ala Leu Ile Arg Ala Gly Ser Val Cys Ser
115 120 125

Ser Gly Gln Pro Glu Cys Gln Arg Cys Thr Gly Met Trp Cys Val Ala
130 135 140

Pro Gly Pro Arg His Leu Cys Phe Gly Gly Phe Leu Pro Cys Leu His
145 150 155 160

Thr Cys Gln Gly Arg Gly Asp Ser Lys Val Gly Gly
165 170

<210> 3486
<211> 34
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3486
Met Gln Gly Ala Gly Lys Ala Leu His Glu Leu Leu Leu Ser Ala Gln
1 5 10 15

Xaa Gln Gly Cys Leu Thr Ala Gly Val Tyr Glu Ser Ala Lys Val Leu
20 25 30

Asn Val

<210> 3487
<211> 68
<212> PRT
<213> Homo sapiens

<400> 3487
Met Ala Arg Pro Ala Glu Lys Leu Ser Thr Ala Gln Ser Ala Val Leu
1 5 10 15

Met Ala Thr Gly Phe Ile Trp Ser Arg Tyr Ser Leu Val Ile Ile Pro

EFS Web - 2.2.5 - Sequence Listing

```
            20                  25                  30

Lys Asn Trp Ser Leu Phe Ala Val Asn Phe Phe Val Gly Ala Ala Gly
         35                  40                  45

Ala Ser Gln Leu Phe Arg Ile Trp Arg Tyr Asn Gln Glu Leu Lys Ala
     50                  55                  60

Lys Ala His Lys
 65
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<210> 3488
<211> 23
<212> PRT
<213> Homo sapiens

<400> 3488

```
Lys Ser Phe Cys Leu Asp Leu Phe Ser Cys Ser Ile Phe Cys Lys Met
  1               5                  10                  15

Tyr Tyr Ile Val Ser Leu Leu
             20
```

<210> 3489
<211> 65
<212> PRT
<213> Homo sapiens

<400> 3489

```
Met Met Phe Ile Thr Leu Pro Leu Pro Leu Gln Ser Tyr Pro Ala Leu
  1               5                  10                  15

Leu Ile Leu Pro Gln Gln Thr Asp Ala Pro Gly Asn Asn Val Gly Val
             20                  25                  30

Ser Thr Lys Lys Phe Arg Arg Arg Lys Tyr Ile His Val Ile Gln Asn
         35                  40                  45

Cys Tyr Leu Tyr His Lys Ile Val Lys Ser Leu Cys Ser Asp Phe Leu
     50                  55                  60

Leu
 65
```

<210> 3490
<211> 19
<212> PRT
<213> Homo sapiens

<400> 3490

```
Met Asp Pro Arg Pro Leu Gln Ala Pro Ile Ala Ile Gly Ser Leu Lys
  1               5                  10                  15

Leu Ser Gly
```

<210> 3491
<211> 34
<212> PRT
<213> Homo sapiens

<400> 3491
Met Phe Ser Phe Ile Ser Val Leu Phe Cys Leu Phe Leu Leu Val Ser
1 5 10 15

Leu Arg Thr Ile His Leu Leu Phe Leu His Trp Leu His Leu Ser Cys
20 25 30

Asp Ile

<210> 3492
<211> 35
<212> PRT
<213> Homo sapiens

<400> 3492
Met Phe Ser Phe Ile Ser Val Leu Phe Cys Leu Phe Leu Leu Val Ser
1 5 10 15

Phe Glu Asn Asn Thr Pro Ser Ile Pro Ser Phe Gly Tyr Thr Phe Pro
20 25 30

Cys Asp Ile
35

<210> 3493
<211> 35
<212> PRT
<213> Homo sapiens

<400> 3493
Met Phe Ser Phe Ile Ser Val Leu Phe Cys Leu Phe Leu Leu Val Ser
1 5 10 15

Phe Glu Asn Asn Thr Pro Ser Ile Pro Ser Phe Gly Tyr Thr Phe Pro
20 25 30

Cys Asp Ile
35

<210> 3494
<211> 14
<212> PRT
<213> Homo sapiens

<400> 3494
Met Ala His Trp His Val Phe Tyr Val Phe Ser Cys His Ser

1 5 10

<210> 3495
<211> 32
<212> PRT
<213> Homo sapiens

<400> 3495
Met Trp Thr Ser Ser Ser Arg Gly Trp Gly Ser Phe Leu Asn Val Cys
1 5 10 15

Ser Leu Leu Pro Ala Trp Pro Ser Met Gln Thr Leu Trp Leu Thr Ser
20 25 30

<210> 3496
<211> 47
<212> PRT
<213> Homo sapiens

<400> 3496
Gly Leu Ser Arg Pro Thr Ser Ser Ser Pro Trp Pro Pro Gly Ala Met
1 5 10 15

Leu Leu Pro Leu Gly Ser Leu Cys Gly Pro Ser Ser Cys Leu Pro Val
20 25 30

Ala Ser Val Asp Gln Ala Arg Ala Ser Gly Gln Pro Phe Gln Ala
35 40 45

<210> 3497
<211> 19
<212> PRT
<213> Homo sapiens

<400> 3497
Met Gly Ala Asn Ile Leu Leu Ser Ile Ala Thr Ile Thr Ile Gly Trp
1 5 10 15

Leu Trp Ile

<210> 3498
<211> 31
<212> PRT
<213> Homo sapiens

<400> 3498
Met Lys Phe Thr Leu Met Leu Val Met Ser Leu Glu Leu Ser Leu Arg
1 5 10 15

Lys Val Leu Ser Ser Val Tyr Pro Leu Gly Lys Tyr Asn His Glu
20 25 30

<210> 3499
<211> 31
<212> PRT
<213> Homo sapiens

<400> 3499
Met Asp Leu Ser Ser Pro Thr Ile Leu Ile Ile Phe Ser Gly Cys Val
1 5 10 15

Ser Ala Phe Leu Cys His Ile Lys His Cys Ile Arg Asn Gln Lys
20 25 30

<210> 3500
<211> 39
<212> PRT
<213> Homo sapiens

<400> 3500
Met Ile Met Met Arg Arg Arg Lys Ile Leu Ile Phe Leu Lys Ile Leu
1 5 10 15

Ile Leu Met Lys Met Lys Gly Asp Cys Leu Glu Val Lys Asn Leu Ser
20 25 30

Gln Val Lys Val Pro Glu Ile
35

<210> 3501
<211> 10
<212> PRT
<213> Homo sapiens

<400> 3501
Met Ser Cys Ser Phe Leu Glu Phe Ser Ile
1 5 10

<210> 3502
<211> 17
<212> PRT
<213> Homo sapiens

<400> 3502
Thr Ile Leu Phe Ser Leu Leu Leu Gly Phe Ser Ile Thr Lys Lys Gln
1 5 10 15

Ile

<210> 3503
<211> 17
<212> PRT
<213> Homo sapiens

<400> 3503
Thr Ile Leu Phe Ser Leu Leu Leu Gly Phe Ser Ile Thr Lys Lys Gln
1 5 10 15

Ile

<210> 3504
<211> 29
<212> PRT
<213> Homo sapiens

<400> 3504
Met Ala Phe Cys Phe Cys Phe Phe Leu His Pro Ser Glu Thr Ala Pro
1 5 10 15

Leu Cys Gly Arg Gln Gly Met Gly Phe Ser Pro Gly His
20 25

<210> 3505
<211> 41
<212> PRT
<213> Homo sapiens

<400> 3505
Met Ala Leu Thr Ser Val Leu Leu Phe Ile Leu Leu Phe Phe Gly Val
1 5 10 15

Ile Leu Met Cys Leu Leu Arg Ala Phe Tyr Leu Pro Asp Phe Ser Trp
20 25 30

Leu Thr Phe Gly Leu Tyr Phe Ala Pro
35 40

<210> 3506
<211> 15
<212> PRT
<213> Homo sapiens

<400> 3506
Met Gln Ser Leu Phe Tyr Ser Leu Leu Leu Ile Arg Val Ser Gly
1 5 10 15

<210> 3507
<211> 35
<212> PRT
<213> Homo sapiens

<400> 3507
Met Ala Pro Pro Gly Leu Ala Val Phe Leu Leu Trp Val Leu Met Pro
1 5 10 15

Pro Gly Pro Thr Ala Ser Ser Gln Pro Arg Ala Ala Ala Pro Pro Val
20 25 30

Ser Phe Ser
35

<210> 3508
<211> 26
<212> PRT
<213> Homo sapiens

<400> 3508
Met Leu Thr Ser Gly Phe Ile Phe Gln Lys Ile Trp Leu Leu Cys Gly
1 5 10 15

Glu Trp Thr Met Leu Gly Gln Lys Thr Lys
20 25

<210> 3509
<211> 33
<212> PRT
<213> Homo sapiens

<400> 3509
Met Asn Ile Leu Ile Lys Arg Ile Leu Val Leu Ala Gln Leu Met His
1 5 10 15

Ile Ser Asp Ser His Ile Cys Cys Ile Asn Trp Phe Asn Thr Phe Gly
20 25 30

Thr

<210> 3510
<211> 3
<212> PRT
<213> Homo sapiens

<400> 3510
Leu Val Tyr
1

<210> 3511
<211> 31
<212> PRT
<213> Homo sapiens

<400> 3511
Met Val Leu Leu Ile Leu Phe Ile His Cys Pro Leu Val Arg Cys Tyr

PCT/US99/30456

```
  1               5                  10                  15

Arg Ile Leu Met Asn Ala Phe Cys Ile Val Val Phe His Thr Ser
             20                  25                  30
```

<210> 3512
<211> 38
<212> PRT
<213> Homo sapiens

<400> 3512

```
Met Trp Tyr Leu Thr Phe Ser Lys His Phe Leu Leu Leu Gly Phe Pro
  1               5                  10                  15

Val Pro Phe Ser Asp Gly Glu Leu Thr Val Pro Ile Glu Ile Phe Ile
             20                  25                  30

Phe Ile Thr Ile Leu Thr
         35
```

<210> 3513
<211> 33
<212> PRT
<213> Homo sapiens

<400> 3513

```
Met Arg Gln Met Ser Leu Asn Trp Lys Asp Ile Leu Thr Leu Leu Cys
  1               5                  10                  15

Val Leu Thr Ala Cys Phe Trp Thr Ser Thr Glu Pro Ala Leu Leu Met
             20                  25                  30

Gln
```

<210> 3514
<211> 80
<212> PRT
<213> Homo sapiens

<400> 3514

```
Met Trp Gly Arg Arg Gln Cys Ala Leu Trp Met Val Phe Thr Ser Thr
  1               5                  10                  15

Ala His Thr Thr Leu Gly Ser Arg Pro Ser Thr Lys Gln Glu Ser Ala
             20                  25                  30

Arg Thr Ala Arg Pro Trp Ser Ser Lys Arg Leu Arg Val Arg Pro Phe
         35                  40                  45

Ser Ser Ile Pro Gln Ser Glu Asn Cys Val Ala Ser Lys Val Ala Gly
     50                  55                  60

Lys Pro Gly Gly Asn Pro Thr Thr Ala His Ile Pro Glu Val Phe Pro
 65                  70                  75                  80
```

<210> 3515
<211> 35
<212> PRT
<213> Homo sapiens

<400> 3515
Met Val Glu Pro Gly Gly Ala Thr Met Gly Ala Gly Pro Gly Ser Cys
1 5 10 15

Ile Leu Leu Ser Leu Leu Pro Leu Ala Arg Thr Cys Leu Ser Gly Asp
20 25 30

Phe Gly Leu
35

<210> 3516
<211> 21
<212> PRT
<213> Homo sapiens

<400> 3516
Met Ile Met Gly Ala Leu Ile Arg Thr Leu Asp Thr Phe Val Ile Val
1 5 10 15

Phe Asn Ile Cys Ile
20

<210> 3517
<211> 38
<212> PRT
<213> Homo sapiens

<400> 3517
Met His Ile Ser Tyr Leu His Ser Ser Tyr Val Ser Gly Ala Ile Val
1 5 10 15

Trp Leu Leu Ser Leu Ser Val Trp Phe His His Gln Ser Ile His Pro
20 25 30

Tyr Ile Lys Leu Lys Ile
35

<210> 3518
<211> 83
<212> PRT
<213> Homo sapiens

<400> 3518
Met Gln Phe His Ala Ser Val Pro Ser Leu Met Leu Phe Leu Pro Thr

```
  1               5                  10                  15

Gly Met Pro Ser Pro Ala Pro Pro Ala Leu Ser Ala Trp Gln Val His
             20                  25                  30

Leu Ser Arg Ser Pro Gln Arg Pro Pro Pro Pro Gly Arg Gln Pro Leu
         35                  40                  45

Cys Pro Ser Pro Pro Gly Tyr Leu Cys Thr Leu Ser Met Leu Leu Leu
     50                  55                  60

Trp His Leu Ser His Cys Ile Leu Leu Val Tyr Met Phe Val Ser Pro
 65                  70                  75                  80

Ser Arg Leu
```

WO 2004/050683 PCT/US2003/038459

<210> 3519
<211> 98
<212> PRT
<213> Homo sapiens

<400> 3519

```
Met Thr Arg Arg Leu Arg Arg Leu Ser Gly Cys Arg Cys Thr Pro Gly
  1               5                  10                  15

Leu Gly Ala Ser Leu Pro Gly Pro Gly Gly Ser Trp Val Ala Trp Leu
             20                  25                  30

Gln Gly Lys Thr Gly Ala Arg Thr His Val Ser Pro Ala Gly Val Gly
         35                  40                  45

Gly Ala Ala Ala Leu Gly Ser Gly Val Arg Pro Trp Gly Met Phe Pro
     50                  55                  60

Met Val Gly Ser Leu Ala Arg Pro Glu Lys Thr Cys Ser Arg Ala Ser
 65                  70                  75                  80

Ile Arg Cys Pro Leu Glu Glu Ala Glu Leu Phe Glu Gly Cys Cys Lys
                 85                  90                  95

Val Arg
```

<210> 3520
<211> 36
<212> PRT
<213> Homo sapiens

<400> 3520

```
Met Leu Arg Val Asp Leu Phe Thr Phe Ser Phe Asn Phe Thr Leu Thr
  1               5                  10                  15

Glu Phe Phe Phe Pro Asn Gln Thr Asn Ser Leu Ala Ser Val Ala Phe
             20                  25                  30

Ser Ser Leu Arg
```

35

<210> 3521
<211> 14
<212> PRT
<213> Homo sapiens

<400> 3521
Asn Gly Ile Ala Ala Leu Ile Trp Gln Leu Cys Leu Ala Phe
1 5 10

<210> 3522
<211> 24
<212> PRT
<213> Homo sapiens

<400> 3522
Met Arg Pro Ile Gly Pro Ser Glu Pro Phe Cys Gly Cys Thr Trp Gly
1 5 10 15

Pro Leu Trp Thr Met Gly Cys Gly
20

<210> 3523
<211> 49
<212> PRT
<213> Homo sapiens

<400> 3523
Met Pro Trp Gly Asn Cys Tyr Val Ile Ser His Leu Gln Gly Ser Ile
1 5 10 15

Leu Ile Gln Phe Leu Leu Asn Ile Gln Leu Gly Cys Arg Asp Ile Asp
20 25 30

Ile Ser Phe Glu Leu Ser Glu Phe Phe Ile Phe Ile Ser Lys Asn Leu
35 40 45

Ile

<210> 3524
<211> 48
<212> PRT
<213> Homo sapiens

<400> 3524
Met Ser Ser Ile Ser Phe Leu Leu His Phe Leu His Val Leu Pro Leu
1 5 10 15

Trp Ala Pro Leu Val Ser Leu Ser Pro Leu Leu Pro Val Pro His Leu
20 25 30

Phe Ala Val Leu Val Glu Ala Glu Val Trp Ala Ala Lys Ile Trp Met
35 40 45

<210> 3525
<211> 41
<212> PRT
<213> Homo sapiens

<400> 3525
Met Cys Arg Ile His Leu Asn Ile Cys Lys Lys Leu Gln Gly Glu Glu
1 5 10 15

Leu Phe Phe Val Phe Leu Phe Leu Phe Val Leu Phe Phe Cys His Phe
20 25 30

Thr Asn Trp Pro His Asp Arg Leu Arg
35 40

<210> 3526
<211> 32
<212> PRT
<213> Homo sapiens

<400> 3526
Met Gln Leu Cys Ser Gly Val Leu Asn Pro Gly Leu Ile Ser Asn Leu
1 5 10 15

Phe Ser Ser His Ser Ser Gln Leu Phe Cys Ala Val His Leu Gly Ser
20 25 30

<210> 3527
<211> 36
<212> PRT
<213> Homo sapiens

<400> 3527
Met His Gly Leu Val Cys Phe Leu Gly Phe Ser Val Ser Leu Ser Cys
1 5 10 15

Phe Ala Phe Gln Arg Ser Cys Ser Tyr Gln Gly Ile Thr Gln Pro Leu
20 25 30

Lys Leu Ser Ser
35

<210> 3528
<211> 56

<212> PRT
<213> Homo sapiens

<400> 3528
Met Arg Ile Ala Val Leu Leu Met Thr Tyr His Ser Ser Cys Met Gly
1 5 10 15

Lys Gln Ser Arg Lys Gln Cys Pro Lys Trp Lys Lys Asp Thr His Thr
20 25 30

Glu Gln Asn Ser Ser Trp Ser Cys Ser Trp Ser Cys Gln Thr Leu Pro
35 40 45

Asp Ala Leu Ser Lys Val Lys Ile
50 55

<210> 3529
<211> 23
<212> PRT
<213> Homo sapiens

<400> 3529
Met Gly Leu Phe Leu Leu Phe Leu Leu Arg Val Gly Val Gly Cys Val
1 5 10 15

Ile Cys Lys Tyr Phe Cys Ala
20

<210> 3530
<211> 136
<212> PRT
<213> Homo sapiens

<400> 3530
Met Ile Gln Asn Ile Leu Phe Leu Ser Ala Phe Phe Trp Gly Glu Gly
1 5 10 15

Pro Ile Ile Pro Thr Leu Pro His Thr Val Lys Ser Cys Pro Leu Trp
20 25 30

Glu Pro Gly Ser Phe Pro Gln Asn Val Ser Arg Ser Leu Glu Asp Asp
35 40 45

Pro Ser Ser Thr Pro His Ala Cys Ser Met Gly Gln Cys Pro Gln Leu
50 55 60

Pro Ala Phe Pro Leu Thr Met Glu Pro Gly Thr Pro Gly Lys Pro Gly
65 70 75 80

Ala Pro Arg Arg Pro Arg Ser Ser Arg Val Ala Ser Leu Ser Cys Arg
85 90 95

Ala Arg Trp Pro Asn Arg Pro His Gly Thr Thr Leu Ala Arg Ser Thr
100 105 110

Arg His Ala Gly Ser Pro Leu Leu Ser Cys Leu Ala Leu Leu Ser Cys
115 120 125

Ser Ser Trp Ile Thr Leu Gln Arg
130 135

<210> 3531
<211> 33
<212> PRT
<213> Homo sapiens

<400> 3531
Met Pro Leu Ser Tyr Ser Phe Cys Val Leu Phe Ile Val Trp Cys Ile
1 5 10 15

His Ser Trp Lys Ile Cys Asn Ser Cys Val Ser Arg Ile Cys Val Phe
20 25 30

Thr

<210> 3532
<211> 33
<212> PRT
<213> Homo sapiens

<400> 3532
Met Pro Leu Ser Tyr Ser Phe Cys Val Leu Phe Ile Val Trp Cys Ile
1 5 10 15

His Ser Trp Lys Ile Cys Asn Ser Cys Val Ser Arg Ile Cys Val Phe
20 25 30

Thr

<210> 3533
<211> 20
<212> PRT
<213> Homo sapiens

<400> 3533
Met Leu Cys Val Cys Leu Ser Thr Ala Ile Ser Ala Thr Phe Ser Leu
1 5 10 15

Met His Val Glu
20

<210> 3534
<211> 8
<212> PRT
<213> Homo sapiens

<400> 3534
Met Ser Ala Trp Cys Asn Phe Tyr

1 5

<210> 3535
<211> 35
<212> PRT
<213> Homo sapiens

<400> 3535
Met Cys Ser Gly Asn Gly Ala Ala Cys Ile Cys Arg Ala Gln Val Leu
1 5 10 15

Leu Ala Leu Cys Cys Gly Ile Cys Thr Ser Pro Ala Ile Cys Cys Pro
20 25 30

Trp Ala Thr
35

<210> 3536
<211> 13
<212> PRT
<213> Homo sapiens

<400> 3536
Met Gly Ser Cys Leu Leu Pro Asn Val Tyr Phe Ser Cys
1 5 10

<210> 3537
<211> 32
<212> PRT
<213> Homo sapiens

<400> 3537
Met Met Phe Leu Ile Ile Met Val Ile Thr Thr Val Leu Phe Ser Asp
1 5 10 15

Glu Ser Val Arg Ser Pro Gly Thr Cys Glu Tyr Val Val Phe Asp Leu
20 25 30

<210> 3538
<211> 14
<212> PRT
<213> Homo sapiens

<400> 3538
Phe Phe Thr Phe Pro Ser Ala Ala His Thr Ala Ile Gln Gln
1 5 10

<210> 3539

<211> 31
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3539
Met Cys Met Cys Val His Val Cys Ala Cys Met Cys Val Pro Met Cys
1 5 10 15

Met Cys Ala Cys Arg Cys Xaa Cys Val Cys Leu Cys Val Cys Thr
20 25 30

<210> 3540
<211> 187
<212> PRT
<213> Homo sapiens

<400> 3540
Met Val Asp Ile Leu Arg Ala Leu Glu Lys Leu Arg Lys Leu Arg Lys
1 5 10 15

Glu Ala Ala Ala Arg Lys Gly Val Cys Pro Pro Ala Ser Ala Asp Glu
20 25 30

Thr Phe Thr His His Leu Gln Arg Leu Arg Lys Leu Ile Lys Lys Arg
35 40 45

Ser Glu Leu Tyr Glu Ala Glu Glu Arg Ala Leu Arg Val Met Leu Glu
50 55 60

Gly Glu Gln Glu Glu Glu Arg Lys Arg Glu Leu Glu Lys Lys Gln Arg
65 70 75 80

Lys Glu Lys Glu Lys Ile Leu Leu Gln Lys Arg Glu Ile Glu Ser Lys
85 90 95

Leu Phe Gly Asp Pro Asp Glu Phe Pro Leu Ala His Leu Leu Glu Pro
100 105 110

Phe Arg Gln Tyr Tyr Leu Gln Ala Glu His Ser Leu Pro Ala Leu Ile
115 120 125

Gln Ile Arg His Asp Trp Asp Gln Tyr Leu Val His Pro Ile Ile Pro
130 135 140

Lys Ala Thr Ser Phe Pro Lys Asp Gly Ser Phe Pro Arg Ser Pro Ala
145 150 155 160

Thr Thr Ser Gly Gln Leu Leu Leu Ser Cys Ile Ser Lys Asp Ala Pro
165 170 175

Gly Val Trp Ser Ser Gln Arg Ser Phe Gln Leu
180 185

<210> 3541
<211> 25
<212> PRT
<213> Homo sapiens

<400> 3541
Met Glu Ser Leu Cys Cys Arg Val His Thr Ser Arg Ile Cys Leu Met
1 5 10 15

Asn Gly Val Cys Leu Leu Tyr Trp Ser
20 25

<210> 3542
<211> 21
<212> PRT
<213> Homo sapiens

<400> 3542
Met Lys Asp Leu Leu Ser Gln Ala His Glu Thr Ser Ser Glu Glu Ala
1 5 10 15

Val Leu Phe Leu Tyr
20

<210> 3543
<211> 27
<212> PRT
<213> Homo sapiens

<400> 3543
Leu Met Leu Thr Ala Arg Phe Val Gln Cys Thr Val Val Asp Pro Ser
1 5 10 15

Ala Gly Phe Leu Ile Trp Ile Gln Ala Arg Ala
20 25

<210> 3544
<211> 6
<212> PRT
<213> Homo sapiens

<400> 3544
Leu Tyr Leu Cys Gly Ser
1 5

<210> 3545
<211> 93
<212> PRT
<213> Homo sapiens

<400> 3545
Gln Asn Thr Leu Thr Arg Phe Met Arg Leu Pro Leu Ile Ser Val Ala

```
  1               5                  10                  15

Leu Val Gln Gly Trp Ala Leu Gly Gly Gly Ala Glu Phe Thr Thr Ala
             20                  25                  30

Cys Asp Phe Arg Leu Met Thr Pro Glu Ser Lys Ile Arg Phe Val His
         35                  40                  45

Lys Glu Met Gly Ile Ile Pro Ser Trp Gly Gly Thr Thr Arg Leu Val
     50                  55                  60

Glu Ile Ile Gly Ser Arg Gln Ala Leu Lys Val Leu Ser Gly Ala Leu
 65                  70                  75                  80

Lys Leu Gly Phe Lys Lys Cys Ser Lys His Arg Asn Gly
                 85                  90
```

pct/us2005/045459

<210> 3546
<211> 12
<212> PRT
<213> Homo sapiens

<400> 3546
```
Met Phe Leu Val Val Val Val Val Leu Ala Phe Asn
  1               5                  10
```

<210> 3547
<211> 13
<212> PRT
<213> Homo sapiens

<400> 3547
```
Ile Tyr Leu Phe Gln Phe Thr Leu Ser Phe Cys Cys Phe
  1               5                  10
```

<210> 3548
<211> 39
<212> PRT
<213> Homo sapiens

<400> 3548
```
Pro Phe Ser Leu Pro Pro Phe Ser Asn Cys Trp Tyr Val Ser Ile Val
  1               5                  10                  15

Pro Ser Pro His Met Gln Glu Ala Ala Arg Ile Leu Glu Ile Ala Ala
             20                  25                  30

Trp Ser Ser Glu Thr Leu Pro
         35
```

<210> 3549
<211> 62
<212> PRT

<213> Homo sapiens

<400> 3549
Met Thr Ile Leu Gln Val Val Ala Leu Pro Leu Tyr Leu Tyr Ile Ile
1 5 10 15

Leu Thr Trp His Leu Trp Pro Phe Leu Cys Ser Tyr Val Ser Val Phe
20 25 30

Pro Gly Arg Val Tyr Ala Leu Glu Cys Gln Glu Leu Val Ser Leu Val
35 40 45

Phe Phe Ile Tyr Leu Ala Tyr Lys Ile Leu Leu Arg Ile Trp
50 55 60

<210> 3550
<211> 30
<212> PRT
<213> Homo sapiens

<400> 3550
Met Glu Phe Phe Glu Thr Leu Gly Leu Asn Asp Ser Ser Glu Leu Ser
1 5 10 15

Leu Leu Phe Asp Thr Lys Glu Trp His Val Trp Gly Phe Leu
20 25 30

<210> 3551
<211> 24
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3551
Met Ala Cys Lys Leu Lys Leu Phe Thr Ile Trp Cys Phe Thr Gly Lys
1 5 10 15

Ala Leu Pro Thr Ser Xaa Phe Asn
20

<210> 3552
<211> 45
<212> PRT
<213> Homo sapiens

<400> 3552
Met Leu Trp Glu Val Cys Ser Phe Ala Phe Cys Asn Ile Ala Cys Cys
1 5 10 15

Cys Ser Leu Phe Gly Phe Val Pro Pro Leu Ser Ala Val Thr Leu Thr
20 25 30

Ala Lys Ser Ala Thr Ser Leu Leu Arg Pro Ala Arg Pro
35 40 45

<210> 3553
<211> 136
<212> PRT
<213> Homo sapiens

<400> 3553
Met Ser Leu Ser Lys Ser Glu Arg Val Leu Cys Leu Trp Leu Ala Leu
1 5 10 15

Pro Thr Thr Arg Pro Ala Leu Cys Arg His Val Ser Leu Cys Pro Thr
20 25 30

Pro Lys Gly Glu Ile Gln His Pro Thr Ala Gln Gln Ala Ala Cys Gln
35 40 45

Gln His Pro Pro Leu Gly Ser Pro Arg Cys Ser Pro Glu Pro His Arg
50 55 60

Ala Leu Ile Thr Phe Ser Ala Ser Gly Asn Gln Ala Leu Ala Ser Leu
65 70 75 80

Ser Pro Pro Pro Leu Leu Ser Pro Phe Pro Pro Asp Pro Gln Asp Leu
85 90 95

Phe Pro Trp Leu Gln Tyr Ser Leu Ala Tyr Arg Ser Pro Lys Ala Val
100 105 110

Leu Gly Met Pro Cys Pro Ser Pro Ser Asn Arg Pro Arg Ala Glu Phe
115 120 125

Asp Ile Lys Leu Ile Asp Thr Val
130 135

<210> 3554
<211> 19
<212> PRT
<213> Homo sapiens

<400> 3554
Met Pro Leu Leu Phe Met Ser Leu Thr Leu Leu Trp Gln Ser Gly Cys
1 5 10 15

Ser Arg Lys

<210> 3555
<211> 26
<212> PRT
<213> Homo sapiens

<400> 3555

Ala Val Pro His Pro Asn Leu Ile Trp Asn Cys Ser Ser His Asn Ser
1 5 10 15

His Thr Ser Trp Asp Gly Pro Gly Glu Arg
20 25

<210> 3556
<211> 14
<212> PRT
<213> Homo sapiens

<400> 3556
Met Arg Ser Leu Pro Phe Tyr Phe Leu Leu Cys Cys Phe Leu
1 5 10

<210> 3557
<211> 4
<212> PRT
<213> Homo sapiens

<400> 3557
Met Arg Lys Ala
1

<210> 3558
<211> 8
<212> PRT
<213> Homo sapiens

<400> 3558
Met Cys Ala Ala Glu Pro Tyr Phe
1 5

<210> 3559
<211> 36
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3559
Met Val Asn Phe Phe Cys Phe Val Leu Leu Arg Arg Val Ser Ser Leu
1 5 10 15

Xaa Lys Lys Lys Lys Lys Ser Glu Arg His Glu Arg Cys Lys Glu Ala

20 25 30

Gln Xaa Trp Leu
35

<210> 3560
<211> 21
<212> PRT
<213> Homo sapiens

<400> 3560
Met Ser Phe His Met Ile Val Ile Leu Leu Gln Ser Ile Thr Lys Asp
1 5 10 15

Ser Thr Ile Leu Val
20

<210> 3561
<211> 26
<212> PRT
<213> Homo sapiens

<400> 3561
Met Gln Ala Gln Phe Lys Thr Pro Ala Tyr Ser Lys Val Ser Val Leu
1 5 10 15

Ile Leu Thr His Cys Ile Leu Trp Val Trp
20 25

<210> 3562
<211> 26
<212> PRT
<213> Homo sapiens

<400> 3562
Met Leu Asn Val Lys His Met Pro Asn Ile Ser Leu Val Leu Phe Val
1 5 10 15

Thr Phe Phe Pro Gln Tyr Phe Arg Val Ile
20 25

<210> 3563
<211> 30
<212> PRT
<213> Homo sapiens

<400> 3563
Met His Ser Arg Lys Pro Val Arg Val Leu Ser Ile Leu Gln Leu Val
1 5 10 15

Leu Gly Leu Tyr Pro Ser Cys Lys Asp Val Met Pro Gln Lys
20 25 30

<210> 3564
<211> 21
<212> PRT
<213> Homo sapiens

<400> 3564
Met Gln Arg Phe Val Gly Leu Cys Gly Asn Ile Ile Ile Ile Trp Pro
1 5 10 15

Cys Val Ala Met Ser
20

<210> 3565
<211> 9
<212> PRT
<213> Homo sapiens

<400> 3565
Phe His Leu Tyr Ser Leu Leu Leu Val
1 5

<210> 3566
<211> 25
<212> PRT
<213> Homo sapiens

<400> 3566
Met Ala Gln Glu Ser Leu Ser Pro Leu Gly Leu Leu Ile Leu Val Cys
1 5 10 15

Ala Glu Pro Ser Val Cys Ala Glu Gly
20 25

<210> 3567
<211> 34
<212> PRT
<213> Homo sapiens

<400> 3567
Met Lys Cys Ile Ser Met Ala Ile Leu Phe Trp Ile Tyr Gly Gly Ser
1 5 10 15

Arg Ala Phe Leu Thr Leu Lys Val Val Cys Val Arg Glu Lys Ala Phe
20 25 30

Thr Ala

<210> 3568
<211> 21
<212> PRT

<213> Homo sapiens

<400> 3568
Phe Leu Cys Met Phe Phe Leu Gln Thr Leu Gln Arg Cys Asp Tyr Thr
1 5 10 15

Ile Val Tyr Lys Gln
20

<210> 3569
<211> 21
<212> PRT
<213> Homo sapiens

<400> 3569
Phe Leu Cys Met Phe Phe Leu Gln Thr Leu Gln Arg Cys Asp Tyr Thr
1 5 10 15

Ile Val Tyr Lys Gln
20

<210> 3570
<211> 78
<212> PRT
<213> Homo sapiens

<400> 3570
Met Gln Phe Leu Lys Asn Val Arg Cys Phe Thr Phe Ser Phe Ser His
1 5 10 15

Leu Val Phe Asn Ile Trp Cys Val Phe Tyr Thr Ser Ser Thr Ser Gln
20 25 30

Phe Thr Pro Ala Thr Phe Lys Met Leu Ser Ser Arg Met Gln Leu Val
35 40 45

Gln Pro Tyr Leu Gly Pro Val Ser Ala Trp Gly Arg Ala Gly Glu Leu
50 55 60

Ser Cys Val His Gly Gly Pro Gly Glu Pro Pro Val Leu Cys
65 70 75

<210> 3571
<211> 11
<212> PRT
<213> Homo sapiens

<400> 3571
Met Ser Ser Leu His Thr Thr Ile Thr Val Phe
1 5 10

<210> 3572
<211> 34

<212> PRT
<213> Homo sapiens

<400> 3572
Met Gly Leu Thr Gly Pro Phe Thr Phe Ile Tyr Leu Leu Phe Glu Ile
1 5 10 15

Leu Ser Gly Gln Thr Thr Glu Pro Gln Ile Asn Tyr Phe Leu Thr Lys
20 25 30

Phe Trp

<210> 3573
<211> 28
<212> PRT
<213> Homo sapiens

<400> 3573
Met Arg Phe Ser Lys Asn Val Ile Trp Val His Asn Phe Ile Leu Leu
1 5 10 15

Trp Ser Asp Asn Ser Pro Cys Glu Ile Ser Ala Phe
20 25

<210> 3574
<211> 16
<212> PRT
<213> Homo sapiens

<400> 3574
Asp Pro Pro Cys Pro Ala Ser Ile Pro Thr Ile Leu Tyr Ser Thr Leu
1 5 10 15

<210> 3575
<211> 73
<212> PRT
<213> Homo sapiens

<400> 3575
Met Ala Pro Arg Pro His Leu Leu Thr Val Leu Leu Leu Leu Pro Leu
1 5 10 15

Gly Leu Asn Pro Lys Ala Ser Leu Gln Trp Gly Gly Pro Cys Leu Gly
20 25 30

Lys Ala Gly Ala Ser Ser Pro Leu Val Pro Leu Leu Leu Trp Arg Val
35 40 45

Ser Cys Glu Val Ser Val Ile Pro Lys Val Lys Phe Ala Gly Leu Asn
50 55 60

Asp Ser Val Cys Pro Ala Ser Leu Cys
65 70

<210> 3576
<211> 91
<212> PRT
<213> Homo sapiens

<400> 3576
Met Leu Arg Ala Leu Ser Cys Leu His Ser Leu Val Gly Cys Ala Ala
1 5 10 15

Gly Ser His Cys Met Arg Asn Gly Ser Asn Leu Ser Val Lys Ser Leu
20 25 30

Gln Thr Ser Gly Arg Ser Gly Ser Gln Trp Asn Asn Tyr Ser Gly Met
35 40 45

Arg Leu Gln Val Pro Leu Leu Pro Glu Leu His Ser Arg Leu Cys Glu
50 55 60

Gly Glu Lys Gly Ile His Leu Arg Ser Phe His Gly Arg His Arg Tyr
65 70 75 80

Phe Asn Val Ala Ile Pro Ser Asn Arg Val Ser
85 90

<210> 3577
<211> 32
<212> PRT
<213> Homo sapiens

<400> 3577
Met Gly Leu Lys Gly Ala Ala Leu Cys Leu Phe Ile Thr Trp Val His
1 5 10 15

Cys Ile Leu Val Val Thr Gly Phe Pro Val Tyr Ser Ser Pro Thr Gln
20 25 30

<210> 3578
<211> 39
<212> PRT
<213> Homo sapiens

<400> 3578
Met Glu Ile Gly Phe Phe Leu Leu Phe Phe Leu Leu Arg Tyr Thr Ala
1 5 10 15

Asn Pro Glu Thr Thr Thr Phe Leu Asn Ser Ser Ser Leu Ala Val Gln
20 25 30

Thr Ile Phe Cys Phe Gln Met

35

<210> 3579
<211> 29
<212> PRT
<213> Homo sapiens

<400> 3579
Met Phe Leu Asn Arg Leu Lys Leu Leu Tyr Gly Phe Trp Leu Ile Ile
1 5 10 15

Ile Asn Thr Val Asn Tyr Thr Arg Gln Pro Thr Arg Ser
20 25

<210> 3580
<211> 62
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3580
Met Leu Gln Lys Glu Val Arg Gln Gln Ile Leu Ile Val Leu Met Thr
1 5 10 15

Phe Lys Xaa Thr Tyr Ile Arg Glu Ser Leu Phe Ser Thr Phe Phe Arg
20 25 30

Gln Asn Leu Leu Leu Ser Leu His Asn Ile Tyr Gln Val Phe Ser Gly
35 40 45

Met Glu Gly Glu Lys Ser Lys Leu Thr Leu Leu Asn Ile Phe
50 55 60

<210> 3581
<211> 76
<212> PRT
<213> Homo sapiens

<400> 3581
Met Asn Ser Glu Val Glu Cys Met Pro Phe Thr Ser Val His Ile Leu
1 5 10 15

Pro Asp Phe Leu Leu Gly Cys Leu His Thr Ser Leu Thr Phe Leu Leu
20 25 30

Leu Asn Leu Pro Leu Cys Met Val Leu Leu Pro Pro Phe Asn Arg Leu
35 40 45

Asp Val Leu Thr Ser Ala Tyr Cys Ile Leu His Pro His Thr Ser Cys
50 55 60

```
Gln Val Phe Pro Tyr Thr Gly Ser Ile Leu His Ser
 65                  70                  75
```

<210> 3582
<211> 70
<212> PRT
<213> Homo sapiens

<400> 3582

```
Met Leu Leu Tyr Val Ser Val Gln Thr Pro Cys Leu Leu Ile Phe Cys
  1               5                  10                  15

Val Asp Val Leu Leu Thr Ile Glu Ser Gly Ser Phe Gln Pro Pro Ala
             20                  25                  30

Met Ile Arg Ala Thr Pro Tyr Phe Leu Gln Phe His Gln Trp Leu Leu
         35                  40                  45

His Ile Phe Trp Asp Ser Val Phe Asp Phe Gly Thr Tyr Ile Phe Lys
     50                  55                  60

Ile Ile Val Ser Pro Cys
 65                  70
```

<210> 3583
<211> 34
<212> PRT
<213> Homo sapiens

<400> 3583

```
Met Asn Gly Asn His Ala Trp Ile Ser Trp Ala Phe Ser Met Leu Phe
  1               5                  10                  15

Phe Pro Ser Pro Leu Pro Gly Ile Tyr Ser Lys Leu Thr Tyr Asn Ser
             20                  25                  30

Glu Asn
```

<210> 3584
<211> 54
<212> PRT
<213> Homo sapiens

<400> 3584

```
Met Val Met Leu Thr Leu Ser Ile Cys Ile Ser Thr Ser Leu Leu Gly
  1               5                  10                  15

Asp Thr Ala Gly Val Ser Phe Ser Glu Glu Cys His Thr Thr Met Glu
             20                  25                  30

Leu Phe Ser Ile Asp Leu Glu Ile Gly Asn Phe Leu Tyr Thr Leu Arg
         35                  40                  45

Glu Asn Phe Phe Glu Met
```

50

<210> 3585
<211> 44
<212> PRT
<213> Homo sapiens

<400> 3585
Met Leu Asn Gly Gly Gly Glu Leu Gly Ile Leu His Leu Phe Leu Ile
1 5 10 15

Ile Leu Asp Ile Ser Leu Leu Glu Glu Lys Leu Ser Val Thr Thr Glu
20 25 30

His Lys Val Asp Phe Ser Leu Ser Ser Pro Ile Phe
35 40

<210> 3586
<211> 7
<212> PRT
<213> Homo sapiens

<400> 3586
Met Ala Pro Lys Ala Trp Pro
1 5

<210> 3587
<211> 361
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (303)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3587
Met Trp Val Leu Thr Pro Ala Ala Phe Ala Gly Lys Leu Leu Ser Val
1 5 10 15

Phe Arg Gln Pro Leu Ser Ser Leu Trp Arg Ser Leu Val Pro Leu Phe
20 25 30

Cys Trp Leu Arg Ala Thr Phe Trp Leu Leu Ala Thr Lys Arg Arg Lys
35 40 45

Gln Gln Leu Val Leu Arg Gly Pro Asp Glu Thr Lys Glu Glu Glu Glu
50 55 60

Asp Pro Pro Leu Pro Thr Thr Pro Thr Ser Val Asn Tyr His Phe Thr
65 70 75 80

Arg Gln Cys Asn Tyr Lys Cys Gly Phe Cys Phe His Thr Ala Lys Thr
85 90 95

Ser Phe Val Leu Pro Leu Glu Glu Ala Lys Arg Gly Leu Leu Leu Leu
100 105 110

Lys Glu Ala Gly Met Glu Lys Ile Asn Phe Ser Gly Gly Glu Pro Phe
115 120 125

Leu Gln Asp Arg Gly Glu Tyr Leu Gly Lys Leu Val Arg Phe Cys Lys
130 135 140

Val Glu Leu Arg Leu Pro Ser Val Ser Ile Val Ser Asn Gly Ser Leu
145 150 155 160

Ile Arg Glu Arg Trp Phe Gln Asn Tyr Gly Glu Tyr Leu Asp Ile Leu
165 170 175

Ala Ile Ser Cys Asp Ser Phe Asp Glu Glu Val Asn Val Leu Ile Gly
180 185 190

Arg Gly Gln Gly Lys Lys Asn His Val Glu Asn Leu Gln Lys Leu Arg
195 200 205

Arg Trp Cys Arg Asp Tyr Arg Val Ala Phe Lys Ile Asn Ser Val Ile
210 215 220

Asn Arg Phe Asn Val Glu Glu Asp Met Thr Glu Gln Ile Lys Ala Leu
225 230 235 240

Asn Pro Val Arg Trp Lys Val Phe Gln Cys Leu Leu Ile Glu Gly Glu
245 250 255

Asn Cys Gly Glu Asp Ala Leu Arg Glu Ala Glu Arg Phe Val Ile Gly
260 265 270

Asp Glu Glu Phe Glu Arg Phe Leu Glu Arg His Lys Glu Val Ser Cys
275 280 285

Leu Val Pro Glu Ser Asn Gln Lys Met Lys Asp Ser Tyr Leu Xaa Leu
290 295 300

Asp Glu Tyr Met Arg Phe Leu Asn Cys Arg Lys Gly Arg Lys Asp Pro
305 310 315 320

Ser Lys Ser Ile Leu Asp Val Gly Val Glu Glu Ala Ile Lys Phe Ser
325 330 335

Gly Phe Asp Glu Lys Met Phe Leu Lys Arg Gly Gly Lys Tyr Ile Trp
340 345 350

Ser Lys Ala Asp Leu Lys Leu Asp Trp
355 360

<210> 3588
<211> 37
<212> PRT
<213> Homo sapiens

<400> 3588
Met Asn Val Cys Phe Val Leu Phe Leu Leu Tyr Cys Leu Leu Asp Leu
1 5 10 15

Gly Cys Phe Pro Leu Ser Val Arg Thr Val Asn Val Asp Met Lys Val
20 25 30

His Ser Pro Val Glu
35

<210> 3589
<211> 33
<212> PRT
<213> Homo sapiens

<400> 3589
Met Val Leu Leu Val Gln Ala Asp Cys Phe Ser Leu Leu Met Asn Ile
1 5 10 15

Ala Trp Leu Leu Ile Ile Ser Tyr Leu Glu Gly Ser Leu Gly Glu Gln
20 25 30

Phe

<210> 3590
<211> 104
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (99)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (103)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3590
Met Leu Ser Pro Trp Trp Gly Ser Asp Cys Phe Leu Glu Leu Ala Leu
1 5 10 15

Phe Phe Ser Ala Ser Glu Leu Ser Leu Leu Pro Leu Ala Leu Ser Ile
20 25 30

Phe Pro Ile Tyr Ile Cys Leu Ser Arg Phe Lys Phe Tyr Leu Leu Gln
35 40 45

Asp Ala Asn His Asn Phe Pro Ile Lys Cys Asn Leu Leu Val Phe Ala
50 55 60

Ser Pro Thr Val Leu Cys Gln Lys Cys Ser Pro Arg Gly Thr Glu Asn
65 70 75 80

Tyr Ser Phe Leu Gln Cys Gly Cys Ser His Pro Pro Phe Phe Leu Pro
85 90 95

Phe Cys Xaa Gln Thr Pro Xaa Arg

100

<210> 3591
<211> 399
<212> PRT
<213> Homo sapiens

<400> 3591
Met Leu Ser Leu Pro Cys Gly Trp Leu Cys Thr Ala Ile Gly Leu Pro
1 5 10 15

Thr Met Phe Gly Tyr Ile Ile Cys Gly Val Leu Leu Gly Pro Ser Gly
20 25 30

Leu Asn Ser Ile Lys Ser Ile Val Gln Val Glu Thr Leu Gly Glu Phe
35 40 45

Gly Val Phe Phe Thr Leu Phe Leu Val Gly Leu Glu Phe Ser Pro Glu
50 55 60

Lys Leu Arg Lys Val Trp Lys Ile Ser Leu Gln Gly Pro Cys Tyr Met
65 70 75 80

Thr Leu Leu Met Ile Ala Phe Gly Leu Leu Trp Gly His Leu Leu Arg
85 90 95

Ile Lys Pro Thr Gln Ser Val Phe Ile Ser Thr Cys Leu Ser Leu Ser
100 105 110

Ser Thr Pro Leu Val Ser Arg Phe Leu Met Gly Ser Ala Arg Gly Asp
115 120 125

Lys Glu Gly Asp Ile Asp Tyr Ser Thr Val Leu Leu Gly Met Leu Val
130 135 140

Thr Gln Asp Val Gln Leu Gly Leu Phe Met Ala Val Met Pro Thr Leu
145 150 155 160

Ile Gln Ala Gly Ala Ser Ala Ser Ser Ser Ile Val Val Glu Val Leu
165 170 175

Arg Ile Leu Val Leu Ile Gly Gln Ile Leu Phe Ser Leu Ala Ala Val
180 185 190

Phe Leu Leu Cys Leu Val Ile Lys Lys Tyr Leu Ile Gly Pro Tyr Tyr
195 200 205

Arg Lys Leu His Met Glu Ser Lys Gly Asn Lys Glu Ile Leu Ile Leu
210 215 220

Gly Ile Ser Ala Phe Ile Phe Leu Met Leu Thr Val Thr Glu Leu Leu
225 230 235 240

Asp Val Ser Met Glu Leu Gly Cys Phe Leu Ala Gly Ala Leu Val Ser
245 250 255

Ser Gln Gly Pro Val Val Thr Glu Glu Ile Ala Thr Ser Ile Glu Pro
260 265 270

Ile Arg Asp Phe Leu Ala Ile Val Phe Phe Ala Ser Ile Gly Leu His
275 280 285

Val Phe Pro Thr Phe Val Ala Tyr Glu Leu Thr Val Leu Val Phe Leu
290 295 300

Thr Leu Ser Val Val Val Met Lys Phe Leu Leu Ala Ala Leu Val Leu
305 310 315 320

Ser Leu Ile Leu Pro Arg Ser Ser Gln Tyr Ile Lys Trp Ile Val Ser
325 330 335

Ala Gly Leu Ala Gln Val Ser Glu Phe Ser Phe Val Leu Gly Ser Arg
340 345 350

Ala Arg Arg Ala Gly Val Ile Ser Arg Glu Val Tyr Leu Leu Ile Leu
355 360 365

Ser Val Thr Thr Leu Ser Leu Leu Leu Ala Pro Val Leu Trp Arg Ala
370 375 380

Ala Ile Thr Arg Cys Val Pro Arg Pro Glu Arg Arg Ser Ser Leu
385 390 395

<210> 3592
<211> 23
<212> PRT
<213> Homo sapiens

<400> 3592
Met Gly Leu Ala Gln Val Val Leu Pro Ala Val Ala His Met Ser Leu
1 5 10 15

Ala Pro Val Thr Leu Leu Ala
20

<210> 3593
<211> 39
<212> PRT
<213> Homo sapiens

<400> 3593
Met Ala Phe Phe Cys Ser Cys Gly Ser Arg Ala Val Glu Thr Ser Trp
1 5 10 15

Val Phe Leu Leu Ile Leu Cys Gln Pro Pro Gly Ala Val Cys Thr Gly
20 25 30

Val Gly His Leu Ala Pro Phe
35

<210> 3594
<211> 61
<212> PRT
<213> Homo sapiens

<400> 3594
Met Trp Leu Phe Arg Ser Leu Ser Gly Leu Phe Thr Asp Ile Leu Ala
1 5 10 15

Ser Pro Gln Leu Ser Leu Thr Lys Gly Tyr Ser Gln Lys Trp Ser Pro
20 25 30

Tyr Phe Pro Ser Ser Asn Asp Tyr Leu Pro Gly Gly Arg Ser Ser Ser
35 40 45

Val His Ser Ile Cys Phe Arg Thr Tyr Ala Gln Arg Leu
50 55 60

<210> 3595
<211> 48
<212> PRT
<213> Homo sapiens

<400> 3595
Met Ser Ile Leu Ser Val Ser His Phe Glu Asp Phe Phe Ser Leu Leu
1 5 10 15

Tyr Leu Cys Phe Ser Phe Phe Gly Phe Tyr Phe Val Val Leu Ser Val
20 25 30

Ile Phe Asn Val Pro Lys Ile Cys Thr Cys Ser Ile Lys Asn Val Val
35 40 45

<210> 3596
<211> 71
<212> PRT
<213> Homo sapiens

<400> 3596
Met Ala Gly Met Ala Leu Ala Arg Ala Trp Lys Gln Met Ser Trp Phe
1 5 10 15

Tyr Tyr Gln Tyr Leu Leu Val Thr Ala Leu Tyr Met Leu Glu Pro Trp
20 25 30

Glu Arg Thr Val Phe Asn Ser Met Leu Val Ser Ile Val Gly Met Ala
35 40 45

Leu Tyr Thr Gly Tyr Val Phe Met Pro Gln His Ile Met Ala Ile Leu
50 55 60

His Tyr Phe Glu Ile Val Gln
65 70

<210> 3597
<211> 7

<212> PRT
<213> Homo sapiens

<400> 3597
Glu Leu Phe Ile Leu Gln Ile
1 5

<210> 3598
<211> 60
<212> PRT
<213> Homo sapiens

<400> 3598
Met Glu Val Ile Ile Asn Ala Ser Trp Arg Leu Trp Val Trp Gly Ile
1 5 10 15

Leu Tyr Leu Asp Ser Val Ser Leu Gln Leu Glu Ala Val Gly Val Gly
20 25 30

Asp Ser Val Ser Gly Phe Arg Ile Thr Pro Ser Gly Gly Trp Gln Val
35 40 45

Phe Leu Gln Asp Gly Pro Glu Ser Lys Met Ser His
50 55 60

<210> 3599
<211> 71
<212> PRT
<213> Homo sapiens

<400> 3599
Met Lys Ala Val Gly Leu Ala Trp Ala Ile Gly Phe Pro Cys Gly Ile
1 5 10 15

Leu Leu Phe Ile Leu Thr Lys Arg Glu Val Asp Lys Asp Arg Val Lys
20 25 30

Gln Met Lys Ala Arg Gln Asn Met Arg Leu Ser Asn Thr Gly Glu Tyr
35 40 45

Glu Ser Gln Arg Phe Arg Ala Ser Ser Gln Ser Ala Pro Ser Pro Asp
50 55 60

Val Gly Ser Gly Val Gln Thr
65 70

<210> 3600
<211> 30
<212> PRT
<213> Homo sapiens

<400> 3600
Met Thr Val Cys Gly Ser Phe Ala Ile Phe Leu Cys Ile Lys Ser Ala
1 5 10 15

Ile Val Ala Ala Ser Glu His Ala Cys Ile Pro Thr Asp Ile
20 25 30

<210> 3601
<211> 32
<212> PRT
<213> Homo sapiens

<400> 3601
Met His Leu Ser Asn Ala Cys Leu Val Phe Val Leu Gln Thr Cys Leu
1 5 10 15

Trp Trp Arg Val Val Ser Cys Ser Pro Val Arg Leu Lys Ala Ala Leu
20 25 30

<210> 3602
<211> 34
<212> PRT
<213> Homo sapiens

<400> 3602
Met Thr Met Phe Phe Ser Thr Trp Lys Ile Ala Thr Leu Cys Ser Thr
1 5 10 15

Phe Ser Gln Pro Gln Pro Trp Ser Thr Ile Thr Met Lys Lys Lys Asn
20 25 30

Met Pro

<210> 3603
<211> 28
<212> PRT
<213> Homo sapiens

<400> 3603
Met Cys Thr Ala Gly Ile Ala Glu Leu Leu Thr Trp Ile Leu Val Leu
1 5 10 15

Ala Phe Leu Leu Leu Gln Phe Gln Tyr Leu His Leu
20 25

<210> 3604
<211> 42
<212> PRT
<213> Homo sapiens

<400> 3604
Met Tyr Leu Val Ile Phe Ser Cys Cys Pro Leu Gly Val Phe Pro Phe
1 5 10 15

Phe Ser His Val Asn Ile Phe His Arg Tyr Pro Cys Ser Leu Leu Asn
20 25 30

Leu Gln Ala His Thr Met Leu His Arg Ser
35 40

<210> 3605
<211> 30
<212> PRT
<213> Homo sapiens

<400> 3605
Met Val Ile Val Leu Tyr Ile Asn Ile Glu His Cys Cys Asp Cys Ser
1 5 10 15

Arg Thr Phe Tyr Val Thr Ala Leu Lys Gln Arg His Asp Tyr
20 25 30

<210> 3606
<211> 26
<212> PRT
<213> Homo sapiens

<400> 3606
Gly Gln Leu Arg Trp Ser Ser Leu Val Ser Gln Phe Ala Cys Leu Phe
1 5 10 15

Ile Leu Phe Ser Ala Lys Cys Ile Pro Phe
20 25

<210> 3607
<211> 37
<212> PRT
<213> Homo sapiens

<400> 3607
Met Val Phe Thr Phe Asp Leu Phe Gly Ile Leu Leu Thr Ser Gly Ile
1 5 10 15

Leu Gly Arg His Phe Phe Tyr Ser Ser Ala Tyr Glu Phe Lys Ala Ile
20 25 30

Phe Cys Lys Tyr Phe
35

<210> 3608
<211> 72
<212> PRT
<213> Homo sapiens

<400> 3608
Met Ser Asn Thr Thr Val Pro Asn Ala Pro Gln Ala Asn Ser Asp Ser

```
  1               5                  10                  15

Met Val Gly Tyr Val Leu Gly Pro Phe Phe Leu Ile Thr Leu Val Gly
             20                  25                  30

Val Val Val Ala Val Val Arg Ser Pro His Ile His Thr Asp Thr His
         35                  40                  45

Ser Phe Ala Lys Ala Gly Ala Gly Trp Ala Trp Ser Ser Leu His Arg
     50                  55                  60

Val Pro Thr Val Leu Leu Arg Glu
 65                  70
```

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<210> 3609
<211> 39
<212> PRT
<213> Homo sapiens

<400> 3609
```
Cys Ala Ser Ser Pro Phe Leu Ser Leu Gly Pro Pro Arg His Thr Ile
  1               5                  10                  15

Ser Val Lys Gly Leu Ser Ser Pro His Gly Leu Leu Ser Gln Pro Phe
             20                  25                  30

Pro Leu Trp Gln Pro Trp Gly
         35
```

<210> 3610
<211> 28
<212> PRT
<213> Homo sapiens

<400> 3610
```
Phe Gly Phe Gly Gly Cys Phe Phe Val Val Ala Trp Phe Gly Ile Phe
  1               5                  10                  15

Gly Phe Val Cys Ile Cys Ile Asn Phe Leu Tyr Asn
             20                  25
```

<210> 3611
<211> 48
<212> PRT
<213> Homo sapiens

<400> 3611
```
Met Met Gly Trp Arg Ile Leu Ala Ile Gly Ala Val Leu Thr Ala Ala
  1               5                  10                  15

Gly Arg Leu Gly Phe Pro Leu Pro Ser Leu Ile Leu Val Leu Tyr Pro
             20                  25                  30

Pro Phe His Ser Ser Pro Asp Ser Leu Ser Ser Ser Ser Leu Tyr Leu
         35                  40                  45
```

<210> 3612
<211> 21
<212> PRT
<213> Homo sapiens

<400> 3612
Met Lys Leu Glu Phe Phe Trp Ile Phe Leu Val Ile Cys Trp Cys Val
1 5 10 15

Leu Ser Ser Asp Thr
20

<210> 3613
<211> 36
<212> PRT
<213> Homo sapiens

<400> 3613
Met Cys Leu Cys Cys Phe Leu Leu Lys Asn Cys Gln Arg Ser Gly Glu
1 5 10 15

Gly Asn Asp Arg Ser Arg Lys Ala Pro His His Cys Val Val Arg Gln
20 25 30

Tyr Thr Glu Arg
35

<210> 3614
<211> 54
<212> PRT
<213> Homo sapiens

<400> 3614
Met Lys Val Val Leu Met Leu Leu Phe Ile Cys Leu Gly Asn Met Tyr
1 5 10 15

Leu His Gly Leu Arg Asn Leu Trp Gln Ile Leu Phe His Ile Gly Val
20 25 30

Ala Phe Leu Ser Ser Tyr Gln Ile Leu Thr Arg Gln Leu Gln Glu Lys
35 40 45

Gln Ser Asp Cys Gly Val
50

<210> 3615
<211> 116
<212> PRT
<213> Homo sapiens

<400> 3615
Met Val Arg Gly Pro Ile Cys Tyr Ser Phe Pro Pro Ala Pro Leu Phe
1 5 10 15

Gln Phe Trp Leu Leu Leu Val Ser Leu Arg Tyr Leu Gln Pro Pro Trp
20 25 30

Leu Gly Asn His Arg Ser Ala Gln Leu Ser Pro Trp Ser Pro Val Ser
35 40 45

Gln Ser Leu Val Leu Pro Gly Pro Pro His Pro His Pro Gln Glu Pro
50 55 60

Gln Pro Phe Leu Arg Gly Phe Gln Lys Asp Ser Leu Trp Arg Leu Phe
65 70 75 80

Leu Leu Thr Phe Glu Ser Ser Pro Phe Gln Phe Ser Phe Thr Arg Ser
85 90 95

Asn Cys Thr Gln Ala Val Leu Lys Ile Gly Asn Ala Phe Ile Tyr Thr
100 105 110

Lys Pro Phe Pro
115

<210> 3616
<211> 32
<212> PRT
<213> Homo sapiens

<400> 3616
Met Arg Leu Phe Leu Cys Leu Trp Ser Asn Pro Ala Trp Gly Lys Val
1 5 10 15

Ser Ile Ser Asp Thr Ile Asp Val Phe Tyr Ser Ala Leu Asn Phe Ile
20 25 30

<210> 3617
<211> 46
<212> PRT
<213> Homo sapiens

<400> 3617
Met His Asn Leu Met Leu Ile Leu Ile Ser Leu Phe Ile Leu Gln Ile
1 5 10 15

Ser Lys Asp Lys Gly Ile Phe Cys Phe Val Leu Ile Leu Ala Arg Leu
20 25 30

Arg Gly Thr Arg His Ser Tyr Thr Leu Leu Gly Met Asn Arg
35 40 45

<210> 3618
<211> 42
<212> PRT
<213> Homo sapiens

<400> 3618
Met Ser Leu Gly Glu Thr Leu Leu Ile Thr Thr Tyr Val Pro Val Phe
1 5 10 15

Leu Leu Leu Gly Val Pro Gly Cys Arg Pro Pro Leu Gly Lys Ala Val
20 25 30

Thr Gly Arg Cys Ser Ser Thr Phe Leu Asp
35 40

<210> 3619
<211> 36
<212> PRT
<213> Homo sapiens

<400> 3619
Met Glu Arg Ala Leu Phe Ser Val Pro His Leu Leu Val Val Leu Asp
1 5 10 15

Phe Thr Thr Cys Ala Cys Ile Ala Tyr Thr Asn Lys Asp Thr Asn Leu
20 25 30

Lys Lys Lys Lys
35

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Met Ala Leu Phe Leu Leu His Ile His Cys Leu Phe Met Ser Ile Pro
1 5 10 15

Phe Pro Ser Ala Lys Gln Thr Gly Gly Lys Thr Glu Thr Gly Ser Phe
20 25 30

Arg Asp Gly Gln Arg Thr Leu Phe Trp Ile Val Asp Val Asp Phe Phe
35 40 45

Val His Lys
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<210> 3621
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<400> 3621

Met Leu Phe Thr Leu Leu Val Ser Cys Tyr Val Phe Leu Pro Leu Ala
1 5 10 15

Leu Pro Cys Phe Ala Phe Phe Phe Ser Phe Trp Pro Ile Pro Phe Tyr
20 25 30

Met Cys Pro Gln Gln Arg Trp Gly Asp Thr Glu His Pro Gly Ser Phe
35 40 45

Pro Ala Leu Leu Gly Arg Pro Arg Leu Gln Ala Pro Ala Val Glu Thr
50 55 60

Leu Lys Gly Asn Lys Gln Pro Ser Thr Leu Pro Asp Pro Arg Leu Phe
65 70 75 80

Arg Glu Ala Ala His Phe His Pro Gly Pro Arg Thr Pro Ser Leu Cys
85 90 95

Pro Thr Arg Ile Ser Leu Asn Gly Arg Asp
100 105

<210> 3622
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<213> Homo sapiens

<400> 3622
Met Thr Phe Val Cys Lys Trp Leu Leu Gly Leu Glu Met Ala Trp Phe
1 5 10 15

Leu Phe Phe Phe Phe Phe Phe Leu Ser Ser Ser Arg Trp Glu Gly Gly
20 25 30

Leu Arg Val Leu
35

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Gly Ser Cys Leu Lys Leu Thr Gln Phe Lys Tyr Ser Phe Cys Lys Thr
1 5 10 15

Asp Phe

<210> 3624
<211> 62
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<213> Homo sapiens

<400> 3624
Met Gly Phe Ser Leu Phe Phe Leu Phe Phe Leu Pro Pro Phe Ala Val

1 5 10 15

Phe Pro Asp Leu His Leu Leu Lys Ser Lys Cys Thr Phe Leu Gly Leu
20 25 30

Ser Lys Cys Arg Ser Phe Met Leu Ser Tyr His Thr Pro Thr Glu Cys
35 40 45

Arg Ser His Thr Ala Lys Ala Leu Ala Cys His Ile Val Met
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<210> 3625
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Met Val Val Ala Tyr Gly Arg Val Phe Met Leu Tyr Leu Ser Leu Leu
1 5 10 15

Phe Asn Phe Tyr Gln Ile Lys Gly Ser Lys Asn Ile Asn Leu
20 25 30

<210> 3626
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Met Gln Gln Ile Lys Phe Val Val Phe Ala Phe Gln Gly Val Thr Gly
1 5 10 15

Cys Pro

<210> 3627
<211> 54
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<213> Homo sapiens

<400> 3627
Met Leu Ile Gln Met Glu Lys Thr Gly Glu Gly Val Gly Val Thr Val
1 5 10 15

Gln Tyr Phe Leu Ala Leu Gly Leu Leu Leu Ser Gln Phe Leu Ser Leu
20 25 30

Pro Leu Leu Ile Ile Ser Gly Met Leu Ala Val Ile Asn Pro Ile Ser
35 40 45

Met Met Asn Gly Leu Gly
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Met Phe Val Tyr Cys Ile His Phe His Ser
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<210> 3629
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<212> PRT
<213> Homo sapiens

<400> 3629
Met Gln Ser Ile Lys Arg Thr
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<210> 3630
<211> 34
<212> PRT
<213> Homo sapiens

<400> 3630
Met Leu Val Thr Glu Phe Cys Ile Val Leu Leu Phe Phe Leu Phe Gln
1 5 10 15

Tyr Ile Gln Phe Asp Asp Val Leu Glu Ile Gly Ala Asn Ile Tyr Thr
20 25 30

Pro Leu

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<212> PRT
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<400> 3631
Met Arg Gly Leu Tyr Phe Cys Leu Gly Val Val Ile Cys Thr His Ala
1 5 10 15

Ile Leu Leu Lys Pro Ser Cys Leu Val Leu Phe Leu Glu Ser Phe Phe
20 25 30

Phe Pro Val Leu Met Tyr Ala Gly Phe Gly Asn Ser Ser
35 40 45

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<400> 3632
Met Gly
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<210> 3633
<211> 44
<212> PRT
<213> Homo sapiens

<400> 3633
Met Ile Phe His Leu Ser Asn Leu Leu Leu Asp Thr Ile Cys Thr Phe
1 5 10 15

Leu Phe Ser Cys Ser Gln Gly Gly Gly Leu Gln Gly Pro Glu Leu Cys
20 25 30

Tyr Pro Thr Arg Phe Leu Ile Glu Ile Pro Asn His
35 40

<210> 3634
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<213> Homo sapiens

<400> 3634
Met Leu Gly Ile Val Ile Ser Cys Leu Phe Tyr Cys Trp Thr Lys Trp
1 5 10 15

Glu Ala Lys Glu Val Cys Gln Arg Arg Trp Arg Val Arg Arg Tyr His
20 25 30

Leu Ser Lys Ile Ser
35

<210> 3635
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<212> PRT
<213> Homo sapiens

<400> 3635
Met Ile Leu Asp Thr Lys Met Trp Val Leu Ser Ile Leu Val Ala Val
1 5 10 15

Gly Val Leu Ile Ala Ser Arg Ala Ser Gln Asp Arg Ala Arg Lys
20 25 30

<210> 3636
<211> 22
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<213> Homo sapiens

<400> 3636
Met Val Phe Ile Phe Ile Ser Thr Cys Gln Leu Cys Ile Ser Lys Thr

1 5 10 15

Ala Gly Phe Ser Lys Glu
20

<210> 3637
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<212> PRT
<213> Homo sapiens

<400> 3637
Met Leu Glu Met Leu Leu Arg Leu Leu Arg Ala Ile Trp Ala Asn Val
1 5 10 15

Phe Leu Trp His Phe Tyr Phe Thr Asn Ser Ile Ser Ser Ile
20 25 30

<210> 3638
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<213> Homo sapiens

<400> 3638
Met Ser Ala Leu Phe Leu Leu Val Ile Gly Thr Ala Tyr Leu Glu Ala
1 5 10 15

Gln Gly Ile Trp Glu Pro Phe Arg Arg Arg Leu Ser Phe Glu Ala Ser
20 25 30

Asn Pro Pro Phe Asp Val Gly Arg Pro Phe Asp Leu Arg Arg Ile Val
35 40 45

Gly Ile Ser Ser Glu Gly Asn Leu Asn Thr Leu Ser Cys Asp Pro Gly
50 55 60

His Ser Arg Gly Phe Cys Gly Ala Gly Gly Ser Ser Ser Arg Pro Ser
65 70 75 80

Ala Gly Ser His Lys Gln Cys Gly Pro Ser Val His Pro His Ser Ser
85 90 95

His Ser Asn Arg Asn Ser Ala Asp Val Glu Asn Val Arg Ala Lys Asn
100 105 110

Ser Ser Ser Thr Ser Ser Arg Thr Ser Ala Gln Ala Ala Ser Ser Gln
115 120 125

Ser Ala Asn Lys Thr Ser Pro Leu Val Leu Asp Ser Asn Thr Val Thr
130 135 140

Gln Gly His Thr Ala Gly Arg Lys Ser Lys Gly Ala Lys Gln Ser Gln
145 150 155 160

His Gly Ser Gln His His Ala His Ser Pro Leu Glu Gln His Pro Gln
165 170 175

Pro Pro Leu Pro Pro Pro Val Pro Gln Pro Gln Glu Pro Gln Pro Glu

FIGURE 5

```
            180                 185                 190

Arg Leu Ser Pro Ala Pro Leu Ala His Pro Ser His Pro Glu Arg Ala
        195                 200                 205

Ser Ser Ala Arg His Ser Ser Glu Asp Ser Asp Ile Thr Ser Leu Ile
    210                 215                 220

Glu Ala Met Asp Lys Asp Phe Asp His His Asp Ser Pro Ala Leu Glu
225                 230                 235                 240

Val Phe Thr Glu Gln Pro Pro Ser Pro Leu Pro Lys Ser Lys Gly Lys
                245                 250                 255

Gly Lys Pro Leu Gln Arg Lys Val Lys Pro Pro Lys Lys Gln Glu Glu
            260                 265                 270

Lys Glu Lys Lys Gly Lys Gly Lys Pro Gln Glu Asp Glu Leu Lys Asp
        275                 280                 285

Ser Leu Ala Asp Asp Asp Ser Ser Ser Thr Thr Thr Glu Thr Ser Asn
    290                 295                 300

Pro Asp Thr Glu Pro Leu Leu Lys Glu Asp Thr Glu Lys Gln Lys Gly
305                 310                 315                 320

Lys Gln Ala Met Pro Glu Lys His Glu Ser Glu Met Ser Gln Val Lys
                325                 330                 335

Gln Lys Ser Lys Lys Leu Leu Asn Ile Lys Lys Glu Ile Pro Thr Asp
            340                 345                 350

Val Lys Pro Ser Ser Leu Glu Leu Pro Tyr Thr Pro Pro Leu Glu Ser
        355                 360                 365

Lys Gln Arg Arg Asn Leu Pro Ser Lys Ile Pro Leu Pro Thr Ala Met
    370                 375                 380

Thr Ser Gly Ser Lys Ser Arg Asn Ala Gln Lys Thr Lys Gly Thr Ser
385                 390                 395                 400

Lys Leu Val Asp Asn Arg Pro Pro Ala Leu Ala Lys Phe Leu Pro Asn
                405                 410                 415

Ser Gln Glu Leu Gly Asn Thr Ser Ser Ser Glu Gly Glu Lys Asp Ser
            420                 425                 430

Pro Pro Pro Glu Trp Asp Ser Val Pro Val His Lys Pro Gly Ser Ser
        435                 440                 445

Thr Asp Ser Leu Tyr Lys Leu Ser Leu Gln Thr Leu Asn Ala Asp Ile
    450                 455                 460

Phe Leu Lys Gln Arg Gln Thr Ser Pro Thr Pro Ala Ser Pro Ser Pro
465                 470                 475                 480

Pro Ala Ala Pro Cys Pro Phe Val Ala Arg Gly Ser Tyr Ser Ser Ile
                485                 490                 495

Val Asn Ser Ser Ser Ser Ser Asp Pro Lys Ile Lys Gln Pro Asn Gly
            500                 505                 510
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Ser Lys His Lys Leu Thr Lys Ala Ala Ser Leu Pro Gly Lys Asn Gly
515 520 525

Asn Pro Thr Phe Ala Ala Val Thr Ala Gly Tyr Asp Lys Ser Pro Gly
530 535 540

Gly Asn Gly Phe Ala Lys Val Ser Ser Asn Lys Thr Gly Phe Ser Ser
545 550 555 560

Ser Leu Gly Ile Ser His Ala Pro Val Asp Ser Asp Gly Ser Asp Ser
565 570 575

Ser Gly Leu Trp Ser Pro Val Ser Asn Pro Ser Ser Pro Asp Phe Thr
580 585 590

Pro Leu Asn Ser Phe Ser Ala Phe Gly Asn Ser Phe Asn Leu Thr Gly
595 600 605

Glu Val Phe Ser Lys Leu Gly Leu Ser Arg Ser Cys Asn Gln Ala Ser
610 615 620

Gln Arg Ser Trp Asn Glu Phe Asn Ser Gly Pro Ser Tyr Leu Trp Glu
625 630 635 640

Ser Pro Ala Thr Asp Pro Ser Pro Ser Trp Pro Ala Ser Ser Gly Ser
645 650 655

Pro Thr His Thr Ala Thr Ser Val Leu Gly Asn Thr Ser Gly Leu Trp
660 665 670

Ser Thr Thr Pro Phe Ser Ser Ser Ile Trp Ser Ser Asn Leu Ser Ser
675 680 685

Ala Leu Pro Phe Thr Thr Pro Ala Asn Thr Leu Ala Ser Ile Gly Leu
690 695 700

Met Gly Thr Glu Asn Ser Pro Ala Pro His Ala Pro Ser Thr Ser Ser
705 710 715 720

Pro Ala Asp Asp Leu Gly Gln Thr Tyr Asn Pro Trp Arg Ile Trp Ser
725 730 735

Pro Thr Ile Gly Arg Arg Ser Ser Asp Pro Trp Ser Asn Ser His Phe
740 745 750

Pro His Glu Asn
755

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<400> 3639
Phe
1

<210> 3640
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<400> 3640
Lys Ile Leu Asp Phe His Ser
1 5

<210> 3641
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<212> PRT
<213> Homo sapiens

<400> 3641
Ala Pro Ser Ile Ser Thr Gly Ser Pro Ser Ile Ala Asn Leu Phe Leu
1 5 10 15

Thr Gly Leu Leu Gly Pro Glu Val Leu His Leu Lys His Pro Met Leu
20 25 30

Lys Ala Ala
35

<210> 3642
<211> 32
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<213> Homo sapiens

<400> 3642
Met Phe Ala Arg Cys Ser Leu Leu Leu Ile Ser Phe Leu Leu Phe Thr
1 5 10 15

Ala Arg Phe Ser Gln Val Arg Gly His Gln Pro Trp Pro Pro Phe Pro
20 25 30

<210> 3643
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<213> Homo sapiens

<400> 3643
Met Pro Leu Ser Cys Tyr Phe Lys Leu Trp Pro Ser Ile Ala Leu Ser
1 5 10 15

Leu

<210> 3644

<211> 34
<212> PRT
<213> Homo sapiens

<400> 3644
Met Arg Lys Tyr Cys Leu Gly Phe Cys Tyr Ser Val Phe Ile Leu Gly
1 5 10 15

Arg Val Leu Asn Phe Met His Leu His Leu Leu Ala Cys Gly Cys Ala
20 25 30

Lys Cys

<210> 3645
<211> 37
<212> PRT
<213> Homo sapiens

<400> 3645
Lys Thr Ile His Ser Tyr Leu Phe Phe Phe Ser Pro Tyr Cys Leu Ser
1 5 10 15

Gln Leu Thr Leu Tyr Thr Asp Phe Val Ser Pro Ser Ile Pro Phe Thr
20 25 30

Pro Asp Tyr Lys Phe
35

<210> 3646
<211> 28
<212> PRT
<213> Homo sapiens

<400> 3646
Met Lys Gly Phe Phe Leu Ile Val Phe Met Leu Ser Arg Ala Glu Glu
1 5 10 15

Glu Glu Asp Glu Gly Leu Val Leu Leu Ser Cys Gly
20 25

<210> 3647
<211> 31
<212> PRT
<213> Homo sapiens

<400> 3647
Met Ile Arg His Leu Arg Asn Thr Gly Ala Leu Leu Leu Phe Ser Leu
1 5 10 15

Gln Leu Val Trp Ala Asp Lys Arg Glu Ile Glu Pro Ser His Ser
20 25 30

<210> 3648
<211> 1
<212> PRT
<213> Homo sapiens

<400> 3648
Ile
1

<210> 3649
<211> 17
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<400> 3649
Met Arg Gly Ser Ser Gln Leu Cys Leu Val Leu Leu Leu Pro Ala Ala
1 5 10 15

Leu

<210> 3650
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<213> Homo sapiens

<400> 3650
Met Trp Gly Arg Ser Phe Leu Gln Leu
1 5

<210> 3651
<211> 16
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<400> 3651
Gly His Thr Glu Gly Ile Ala Val Val Ser His Phe Gly Phe Leu Leu
1 5 10 15

<210> 3652
<211> 34
<212> PRT
<213> Homo sapiens

<400> 3652
Met Asp Leu Phe Gly Phe Arg Ala Leu Leu Ser Phe His Trp Asn Val
1 5 10 15

Leu Phe Ala Leu Ala Leu Phe Phe Phe Phe Phe Trp Phe Leu Leu Ala
20 25 30

Phe Ile

<210> 3653
<211> 46
<212> PRT
<213> Homo sapiens

<400> 3653
Met Thr Arg Arg His Ile Val Leu Leu Arg Glu Phe Trp His Trp Glu
1 5 10 15

Arg Cys Arg Leu Ser Arg Met Thr Ala Ile Pro Thr Pro Gln Ser Val
20 25 30

Leu Arg Asp Cys Gly Glu Gly Ala Ser Gly Thr Gly Lys Val
35 40 45

<210> 3654
<211> 126
<212> PRT
<213> Homo sapiens

<400> 3654
Met Val Ala Gly Leu Ile Pro Ala Pro Ala Leu Val Pro Val Phe Cys
1 5 10 15

Trp Phe Val Ser Leu Phe Ser Pro His Glu Leu Phe Leu Gln Leu Phe
20 25 30

Phe Lys Met Arg Leu Ser Gly Ser Val Ser Pro Met Arg Ala Gly Ala
35 40 45

Thr Cys Gly Ile Ser Trp Thr Arg Pro Arg Gly Cys Arg Gly Gln Pro
50 55 60

Gly Arg Glu Glu Arg Glu Lys Pro Gly Gln Arg Trp Gly Gly Gly Ser
65 70 75 80

Ser Pro Glu Ser Pro Arg Leu Gly Gln Ser Gly Arg Gln Pro Glu Ala
85 90 95

Arg Gly Leu Gly Glu Glu Ser Leu Val Asp Gly Arg Glu Arg Gly Ala
100 105 110

Leu Leu Tyr Ala Pro Gly Ala Leu Cys Arg Arg Ala Ala Gly
115 120 125

<210> 3655
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<212> PRT
<213> Homo sapiens

<400> 3655

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Met Ala Leu Ile Leu Ile Val Phe Lys Tyr Gln Ser Phe Phe Arg Leu
 1               5                  10                  15

His Ser Cys Asn Gln Gln Pro His Ala Lys Val Leu Glu Pro Ala Val
            20                  25                  30

Glu Leu Gln Asp Glu Asp Gly Met Val His Leu Ser Thr Val Ile Ser
        35                  40                  45

Tyr Asn Leu Lys Asn Arg Gln Ala Gly Asn Val Tyr Ile Glu Ser Tyr
    50                  55                  60

Ile Pro
65
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Patent Application: 11/123,456

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Page 1828 of 3654

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<213> Homo sapiens

<400> 3656
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Asp Gln Arg Gln Trp Leu Gly Val Met Cys Glu Leu Ser Leu Leu Leu
 1               5                  10                  15

Arg Met Leu Phe Cys Glu Arg Asn Cys Glu Cys Asn Gly Asn Val Gly
            20                  25                  30

Ala Ser Gly Asp Ser Leu Ser Cys Pro Leu Thr Ser Lys Ala Ser Cys
        35                  40                  45

Ala
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<210> 3657
<211> 69
<212> PRT
<213> Homo sapiens

<400> 3657
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Met Gly Ala Trp Gly Arg Gly Trp Pro Trp Glu Glu Arg Gln Gly His
 1               5                  10                  15

His Leu Leu Leu Leu Leu Leu Pro Ala Pro Thr Leu Lys Gly Leu Gly
            20                  25                  30

Ala Ala Gln Leu Pro Leu Cys Pro Ser Gly Gly Leu Ser Pro Leu Leu
        35                  40                  45

Thr Leu Leu Gln Ser Arg Glu Thr Leu Asn Lys Ala Ile Arg Val Cys
    50                  55                  60

Gln Lys Lys Lys Lys
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<210> 3658

<211> 38
<212> PRT
<213> Homo sapiens

<400> 3658
Met Ser Ile Phe Ser Val Leu Ile Phe Phe Pro Ser His Cys Tyr Ser
1 5 10 15

Leu Pro Ser Arg Val Arg Cys Gly Glu Ile Met Leu Ala Cys Phe His
20 25 30

Gly Asp Thr Glu Glu Lys
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<210> 3659
<211> 19
<212> PRT
<213> Homo sapiens

<400> 3659
Met Ala Cys Ile Pro Ser Gly Leu Leu Ile Trp Ala Trp Asn Leu Trp
1 5 10 15

Phe Arg Ala

<210> 3660
<211> 84
<212> PRT
<213> Homo sapiens

<400> 3660
Met Arg Val Ala Val Gly Gln Ala Leu Gln Ile Met Val Ile Ala Trp
1 5 10 15

Cys Thr Gly Leu Ser Leu Val Ala Glu Ala Leu Leu Cys Lys Gly Lys
20 25 30

Ser Arg Ala Thr Val Thr Gly Glu Ala Gln Arg Pro Gln Pro His Thr
35 40 45

Gly Leu Leu Cys Arg Leu Pro Leu Asp Leu Arg Val Leu His Leu Trp
50 55 60

Lys Thr Val Trp Arg Ala Val Leu Trp Pro Gly Gly Arg Arg Thr Gln
65 70 75 80

Leu Ala Gly Ser

<210> 3661
<211> 36
<212> PRT
<213> Homo sapiens

<400> 3661
Met Cys Tyr Phe Leu Val Ile Ser Ile Ile Leu Cys Ile Phe Arg Leu
1 5 10 15

Phe Asn Ser Gln Met Tyr Met Ile Leu Pro Cys Phe Leu Lys Lys Asn
20 25 30

Leu Ser Ile Met
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<210> 3662
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<400> 3662
Met Lys Ala Val Trp Tyr Leu Ala Ser Ser Phe Leu Ile Phe Leu Val
1 5 10 15

Val Gln Lys Arg
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<210> 3663
<211> 27
<212> PRT
<213> Homo sapiens

<400> 3663
Met Ile Arg Thr Val Ile Phe Ser Thr Leu Phe Leu Tyr Ser Val Pro
1 5 10 15

Gly Met Thr Tyr Ser Ile Asp Phe Met Thr His
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<210> 3664
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<400> 3664
Thr Phe Leu Phe Leu Phe Trp Tyr Cys Lys Leu Ala Gly Trp Leu His
1 5 10 15

Trp Leu Thr His Tyr Pro Leu His His Ile Leu Phe Phe Thr Tyr Tyr
20 25 30

<210> 3665
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<212> PRT
<213> Homo sapiens

<400> 3665
Met Tyr Ile Ile Ile Ser Leu Thr Leu Ile Met Trp Arg Phe Arg Phe
1 5 10 15

Phe Gln Leu Met Arg Leu Gln Pro Cys Leu Cys Leu Lys Lys Met Lys
20 25 30

Lys Gln Asn Lys Thr Met Ser
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<210> 3666
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<212> PRT
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<400> 3666
Met Gly Leu Ser Gly Pro Gly Gly Ser Gln His Ser Leu His Phe Leu
1 5 10 15

Thr Ser Ser Ser Phe Leu Ile Phe Phe Ser Phe Phe Ser Ile Glu Thr
20 25 30

Gly Ala Glu Ala
35

<210> 3667
<211> 77
<212> PRT
<213> Homo sapiens

<400> 3667
Met Glu Lys Gly Asp Pro Asp Pro Lys Pro Ala Leu Pro Ser Leu Trp
1 5 10 15

Cys Trp Gly Gly Pro Val Cys Leu Cys Asn Cys Val Cys Met Leu Val
20 25 30

Phe Val Cys Ile Ser Val Phe Gln Val Tyr Val Ser Pro Cys Ala Pro
35 40 45

Ala Pro Gln Leu Ser Thr Pro Gly Cys Leu Ser Pro Val Gly Leu Cys
50 55 60

Leu Leu Gly Ile Lys Gln Gly Phe Leu Leu Gln Gly Met
65 70 75

<210> 3668
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<213> Homo sapiens

<400> 3668
Met Ser Pro Phe Phe Leu Thr Val Leu Lys His Tyr Phe Ala Phe Leu
1 5 10 15

Phe Val Thr Lys Ser Phe Ile Phe Asn Gly
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<400> 3669
Met Leu Lys Ser Asp Ala Val Lys Ala Ile
1 5 10

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Met Tyr Tyr Val Gln Lys Thr Asn Pro Leu Val Ile Ala Met Gly Thr
1 5 10 15

Val Ser Ile Asn Phe Phe Phe Phe Tyr Lys Xaa Arg Lys Val Tyr
20 25 30

<210> 3671
<211> 39
<212> PRT
<213> Homo sapiens

<400> 3671
Met Tyr Ile Cys Leu Ile Ile Leu Leu Ser Thr Val Phe Cys Gly Pro
1 5 10 15

Asp Ser Ala Phe Leu Cys Phe Phe Gly Phe Arg Leu Leu Val Ala Cys
20 25 30

Asp Phe Ser Asp Phe Trp Pro
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<210> 3672
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<212> PRT
<213> Homo sapiens

<400> 3672
Met Arg Leu Val Ser Tyr Ile Val Phe Leu Asp Gly Phe Leu Leu Leu
1 5 10 15

Ile Leu Lys Tyr Leu Asn Phe Cys Val Thr Gln Val Ser Tyr Thr Ser
20 25 30

Phe Trp Cys Leu Gly Gln Ile Tyr Gly Lys
35 40

<210> 3673
<211> 80
<212> PRT
<213> Homo sapiens

<400> 3673
Ile Ser Ser Thr Asp Ile Trp Trp Asn Arg Ser Leu Asp Thr Gly Leu
1 5 10 15

Arg Leu Leu Leu Ser Trp Pro Gly Ala Ala Gly Thr Thr Ala Cys Val
20 25 30

Cys Ala Asp Thr Val Tyr Tyr Tyr Gln Met Val Pro Ser Trp Lys Phe
35 40 45

Arg Ser Pro Pro Thr Trp Ile Ser Leu Leu Gly Pro Phe Ser Gly Ser
50 55 60

Phe Asn Val Asp Asn Asp Ser Gly Met Trp Leu Tyr Leu Leu Leu Tyr
65 70 75 80

<210> 3674
<211> 37
<212> PRT
<213> Homo sapiens

<400> 3674
Met Leu Ile Phe Gln Ile Ile Ser Gln Gln Leu Pro Tyr Leu Leu Leu
1 5 10 15

Ala Ile Thr Thr Gly Ser Gln Glu Ser Arg Tyr Phe Tyr Ser Cys Trp
20 25 30

Thr Asn Glu Lys Lys
35

<210> 3675
<211> 30
<212> PRT
<213> Homo sapiens

<400> 3675
Met Thr Pro Cys Thr Leu Ser Phe Pro Val Phe Leu Ile Tyr Ile Ile
1 5 10 15

Ser Lys Tyr Leu Trp Leu Leu Ser Ser Cys Ser Pro Glu Pro
20 25 30

<210> 3676
<211> 38
<212> PRT
<213> Homo sapiens

<400> 3676
Met Thr Cys Ala Arg Ser Pro Leu Ala Leu Pro Thr Pro Leu Phe Phe
1 5 10 15

Phe Leu Leu Ile Leu Tyr Ser Gln Lys Arg Ile Ser Phe Ser Ser Phe
20 25 30

Phe His Ser Leu Lys Phe
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<210> 3677
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<212> PRT
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<400> 3677
Gly Lys Cys Ala Cys
1 5

<210> 3678
<211> 77
<212> PRT
<213> Homo sapiens

<400> 3678
Met Gln Lys Gln Leu Tyr Phe Arg Ala Trp Cys Tyr Leu Leu Ala Asn
1 5 10 15

Phe Leu Phe Phe Asp Leu Thr Ala Thr Thr Phe Asp Ser Thr Ser Leu
20 25 30

Lys Thr Ser Ala Arg Ser Arg Gln Tyr Thr Leu Thr Thr Leu Val Leu
35 40 45

Thr Ala Phe Pro Ile Ala Ser Leu Pro Phe Lys Leu Leu Leu Val Ser
50 55 60

Val Leu Pro Ser Asp Trp Ser Lys His Asn Lys Gly Leu
65 70 75

<210> 3679
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<213> Homo sapiens

<400> 3679
Met Arg Pro Tyr Gln Arg Lys Asn Arg Thr Leu Ala Phe Phe Leu Arg
1 5 10 15

Phe Leu Ile Met Phe Leu Val Phe Cys Glu Ser Leu
20 25

<210> 3680
<211> 34
<212> PRT
<213> Homo sapiens

<400> 3680
Met Ala Thr Ile Leu Ile Leu Ser Met His Leu His Leu Leu Gln Ala
1 5 10 15

Ser Ser Lys Gly Leu Cys Phe Cys Thr Leu Pro Ser Thr Phe Leu Tyr
20 25 30

Asp Phe

<210> 3681
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<213> Homo sapiens

<400> 3681
Met Thr Leu Pro Ser Trp Phe Ser Cys Tyr Leu Ser Asp Cys Pro Leu
1 5 10 15

Arg Gly Pro Leu Ser Pro Pro Val Leu Ser Phe Leu Val Ser Leu Lys
20 25 30

Gly Leu Val Met Gly Leu Arg Pro Ser Lys Tyr Ala Pro Gly Phe Asn
35 40 45

Tyr His Leu Tyr Ala Ala Glu Ser Lys Ser Ile Gln Leu Val Leu Asn
50 55 60

Cys Thr
65

<210> 3682
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<213> Homo sapiens

<400> 3682
Met Val Val Met Glu Ala Gly Gly Ile Met Pro Cys Trp Phe Gln Cys
1 5 10 15

Trp Asp Trp Leu Leu Phe Val Gly Phe Gly Leu Gly Ser Pro Arg Lys
20 25 30

Lys

<210> 3683
<211> 34
<212> PRT
<213> Homo sapiens

<400> 3683
Lys Trp Leu Leu Phe Ile Phe Leu Leu Cys Leu Gln Leu Val Asn Ala
1 5 10 15

Leu Leu Ser Leu Phe Gln Glu Arg Phe Val His Cys Pro Ala Arg Phe
20 25 30

Val Ser

<210> 3684
<211> 29
<212> PRT
<213> Homo sapiens

<400> 3684
Met Gln Leu Ala Val Phe Ala Phe Ser Thr Leu Trp Leu Trp Leu Leu
1 5 10 15

Ala Met Pro Arg Leu Ser Val Gly Met Pro Tyr Gly Ser
20 25

<210> 3685
<211> 39
<212> PRT
<213> Homo sapiens

<400> 3685
Met Arg Trp Leu Leu Leu Val Phe Asn Gln Ile Arg Phe Thr Val Ile
1 5 10 15

Ser Leu Ile Cys Ile Tyr Tyr Leu Phe Ala Ile Ile Leu Tyr Arg Ile
20 25 30

Phe Trp Ile His Val Leu Ala
35

<210> 3686
<211> 30
<212> PRT
<213> Homo sapiens

<400> 3686
Met Ala Phe Phe Lys Val Ser Tyr His Phe Leu Ile Ala Leu Leu Thr
1 5 10 15

Tyr Asn Trp Thr Gln Pro Thr Leu Ser Ala Ser Val Asn Ser
20 25 30

<210> 3687
<211> 38
<212> PRT
<213> Homo sapiens

<400> 3687
Met Ala Arg Ala Asp Trp Val Leu Ser Leu Leu Leu Tyr Asn His Ile
1 5 10 15

Thr Ala Leu Pro Cys Ile Phe Ser Ser Lys Asn Gly Asp Tyr Leu Leu
20 25 30

Cys Gly Ser Val Cys Arg
35

<210> 3688
<211> 6
<212> PRT
<213> Homo sapiens

<400> 3688
Met Phe Ile Ile Lys Ile
1 5

<210> 3689
<211> 22
<212> PRT
<213> Homo sapiens

<400> 3689
His Cys Leu His Gln Lys Gln Phe Leu Phe Phe Phe Leu Ile Leu Leu
1 5 10 15

Leu Leu Tyr Leu Lys Phe
20

<210> 3690
<211> 28
<212> PRT
<213> Homo sapiens

<400> 3690
Pro Arg Thr Pro Cys Asn Val Gly Arg Pro Ala Leu Ser Ser Met Ala
1 5 10 15

Leu Thr Ser Cys Ser Gly Arg Thr Ser Ser Pro Gly
20 25

<210> 3691
<211> 16
<212> PRT
<213> Homo sapiens

<400> 3691
Met Gly Ser Ser Arg Gly Arg Glu Ala Ser Trp Gly Leu Pro Leu Gly
1 5 10 15

<210> 3692
<211> 74
<212> PRT
<213> Homo sapiens

<400> 3692
Phe Arg Phe Leu Phe Ser Phe Phe His Glu Ala Leu Trp Arg Ser Met
1 5 10 15

Phe Leu Leu Ser Phe Leu Arg Lys Pro Ser Phe Trp Ala Thr Gly Leu
20 25 30

Ile Leu Ser Thr Ser Ser Phe Pro Pro Phe Ser Ile Val Ser Leu Pro
35 40 45

Pro Ser His Pro Thr Pro Cys Pro Ser Leu Pro Gln Leu Pro Leu Phe
50 55 60

Pro Cys Ser Glu Phe Pro Ala Gln Arg His
65 70

<210> 3693
<211> 27
<212> PRT
<213> Homo sapiens

<400> 3693
Met Cys Leu Phe Leu Phe Cys Leu Phe Tyr Phe Tyr Phe Ser Val Asn
1 5 10 15

Ala Arg Thr Asp Leu His Val Lys Ser Gly Leu
20 25

<210> 3694
<211> 25
<212> PRT
<213> Homo sapiens

<400> 3694
Gly His Pro Lys Cys Lys Leu Leu Leu Ser Asp Pro Cys Leu Leu Met
1 5 10 15

Tyr Ser Leu Phe Asn Cys Val Glu Phe
20 25

<210> 3695
<211> 40
<212> PRT
<213> Homo sapiens

<400> 3695
Met Ala Cys Val Ile Leu Gly Phe Cys Val Phe Trp Trp Val Ser Phe
1 5 10 15

Leu Gly Ser Pro Asp Leu Leu Leu Gly Pro Val Leu Ser Ala Asn Pro
20 25 30

Ala Ser Phe Thr Cys Pro Ala His
35 40

<210> 3696
<211> 36
<212> PRT
<213> Homo sapiens

<400> 3696
Met Trp Val Arg Glu Gly Ile Trp Phe Cys Tyr Leu Ala Val Val Phe
1 5 10 15

Ser His Pro Ser Phe Leu Thr Ile Lys Ser His Leu Gly Leu Glu Lys
20 25 30

Lys Lys Lys Lys
35

<210> 3697
<211> 433
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (298)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3697
Met Ala Thr Leu Phe Thr Ile Trp Cys Thr Leu Cys Asp Arg Ala Tyr
1 5 10 15

Pro Ser Asp Cys Pro Glu His Gly Pro Val Thr Phe Val Pro Asp Thr
20 25 30

Pro Ile Glu Ser Arg Ala Arg Leu Ser Leu Pro Lys Gln Leu Val Leu
35 40 45

Arg Gln Ser Ile Val Gly Ala Glu Val Gly Val Trp Thr Gly Glu Thr
50 55 60

Ile Pro Val Arg Thr Cys Phe Gly Pro Leu Ile Gly Gln Gln Ser His
65 70 75 80

Ser Met Glu Val Ala Glu Trp Thr Asp Lys Ala Val Asn His Ile Trp
85 90 95

Lys Ile Tyr His Asn Gly Val Leu Glu Phe Cys Ile Ile Thr Thr Asp
100 105 110

Glu Asn Glu Cys Asn Trp Met Met Phe Val Arg Lys Ala Arg Asn Arg
115 120 125

Glu Glu Gln Asn Leu Val Ala Tyr Pro His Asp Gly Lys Ile Phe Phe
130 135 140

Cys Thr Ser Gln Asp Ile Pro Pro Glu Asn Glu Leu Leu Phe Tyr Tyr
145 150 155 160

Ser Arg Asp Tyr Ala Gln Gln Ile Gly Val Pro Glu His Pro Asp Val
165 170 175

His Leu Cys Asn Cys Gly Lys Glu Cys Asn Ser Tyr Thr Glu Phe Lys
180 185 190

Ala His Leu Thr Ser His Ile His Asn His Leu Pro Thr Gln Gly His
195 200 205

Ser Gly Ser His Gly Pro Ser His Ser Lys Glu Arg Lys Trp Lys Cys
210 215 220

Ser Met Cys Pro Gln Ala Phe Ile Ser Pro Ser Lys Leu His Val His
225 230 235 240

Phe Met Gly His Met Gly Met Lys Pro His Lys Cys Asp Phe Cys Ser
245 250 255

Lys Ala Phe Ser Asp Pro Ser Asn Leu Arg Thr His Leu Lys Ile His
260 265 270

Thr Gly Gln Lys Asn Tyr Arg Cys Thr Leu Cys Asp Lys Ser Phe Thr
275 280 285

Gln Lys Ala His Leu Glu Ser His Met Xaa Ile His Thr Gly Glu Lys
290 295 300

Asn Leu Lys Cys Asp Tyr Cys Asp Lys Leu Phe Met Arg Arg Gln Asp
305 310 315 320

Leu Lys Gln His Val Leu Ile His Thr Gln Glu Arg Gln Ile Lys Cys
325 330 335

Pro Lys Cys Asp Lys Leu Phe Leu Arg Thr Asn His Leu Lys Lys His
340 345 350

Leu Asn Ser His Glu Gly Lys Arg Asp Tyr Val Cys Glu Lys Cys Thr
355 360 365

Lys Ala Tyr Leu Thr Lys Tyr His Leu Thr Arg His Leu Lys Thr Cys
370 375 380

```
Lys Gly Pro Thr Ser Ser Ser Ser Ala Pro Glu Glu Glu Glu Glu Asp
385                 390                 395                 400

Asp Ser Glu Glu Glu Asp Leu Ala Asp Ser Val Gly Thr Glu Asp Cys
                405                 410                 415

Arg Ile Asn Ser Ala Val Tyr Ser Ala Asp Glu Ser Leu Ser Ala His
            420                 425                 430

Lys
```

<210> 3698
<211> 38
<212> PRT
<213> Homo sapiens

<400> 3698
Met Gly Ser Pro Met Thr Trp Ser Cys Arg Ser Leu Ser Ser Leu Trp
  1   5   10   15

Trp Pro Pro Val Ser Ser Ala Arg His Arg Arg Cys Ser Arg Arg Gly
             20   25   30

Asp Pro Gly Thr Arg Gly
         35

<210> 3699
<211> 39
<212> PRT
<213> Homo sapiens

<400> 3699
Met Val Met Phe Leu Ser Leu Ser Leu Trp Ile Asn Pro Val Ile Gly
  1   5   10   15

Lys Asp Met Thr Ile Trp Arg Trp Asn Thr Tyr Arg Lys Asp Gln Ile
             20   25   30

Ser Tyr Leu Leu Phe Phe His
         35

<210> 3700
<211> 28
<212> PRT
<213> Homo sapiens

<400> 3700
Met Ile Gly Leu Thr Phe Ala Ser Thr Ser Asp Phe Ala Leu Leu Ser
  1   5   10   15

Lys Phe Asn Thr Phe Gln Leu Leu Met Cys Val Leu
             20   25

<210> 3701
<211> 31
<212> PRT
<213> Homo sapiens

<400> 3701
Met Gly Lys Gly Ile Ala Val Leu Ala Leu Trp Tyr Ala Ala Thr Ser
1 5 10 15

Leu Gly Ser Arg Pro Cys Pro Cys Pro Thr Thr His Ser Gln Leu
20 25 30

<210> 3702
<211> 17
<212> PRT
<213> Homo sapiens

<400> 3702
Met Leu Leu Phe Leu Ile Val Thr Leu Leu Met Asn Val Arg Ser Leu
1 5 10 15

Gly

<210> 3703
<211> 50
<212> PRT
<213> Homo sapiens

<400> 3703
Met Phe Leu Leu Phe Pro Gln Thr Ser Leu Thr Val Leu Phe Val Ser
1 5 10 15

Cys Pro Val Glu Gly Ser Arg Val His Ile Leu Leu Ser Val Asn Met
20 25 30

Pro Trp Asn Leu His Lys Gly Arg Thr Met Cys Ser Phe Phe Gln Gln
35 40 45

Leu Phe
50

<210> 3704
<211> 65
<212> PRT
<213> Homo sapiens

<400> 3704
Met His Arg Leu Ala Leu Trp Leu Leu Gly Leu Trp Gly Val Met Trp
1 5 10 15

Ser His Thr Ser Ala Leu Leu Ala Leu Val Lys Leu Trp Lys Gly Arg
20 25 30

Leu Gly Lys Ala Gly Thr Arg Lys Lys Arg Lys Arg Gln Gln Gln Glu
35 40 45

Ser Met Gln Val Gly Lys Asn Leu Val Trp Arg Ala Gln Gln Arg Lys
50 55 60

Arg
65

<210> 3705
<211> 34
<212> PRT
<213> Homo sapiens

<400> 3705
Met Glu Arg Val Gly Arg Asn Leu Thr Ala Leu Arg Phe Leu Leu Phe
1 5 10 15

Val Leu Ile Leu Arg Leu Leu Lys Ile Ile Phe Ile Cys Ser Val Tyr
20 25 30

Tyr Glu

<210> 3706
<211> 43
<212> PRT
<213> Homo sapiens

<400> 3706
Met Cys Glu Ser Thr Glu Leu Asn Met Thr Phe His Leu Phe Ile Val
1 5 10 15

Ala Leu Ala Gly Ala Gly Ala Arg Asn Ser Asp Arg Asn Thr Thr Arg
20 25 30

Val Asn Gly Ser Gln Pro Cys Ser Asp Pro Gln
35 40

<210> 3707
<211> 55
<212> PRT
<213> Homo sapiens

<400> 3707
Met Thr Gln Lys Asp Gly Ile Cys Lys Asp Gln Leu Leu Phe Ala Leu
1 5 10 15

Leu Ile Val Cys Asn Ala Val Tyr Ser Asn Thr Trp Ser Phe Ser Ser
20 25 30

Gly Ser Gly Met Trp Ile Asn Leu Thr Asn Gln Asp Pro Ser Leu Asn
35 40 45

Val Asn Thr Thr Asn Tyr Thr

50 55

<210> 3708
<211> 24
<212> PRT
<213> Homo sapiens

<400> 3708
Met Asn Cys Lys Lys Gln Leu Leu Thr Asp Ile Phe Leu Leu Leu Phe
1 5 10 15

Leu Gly Gly Phe Phe Phe Phe Phe
20

<210> 3709
<211> 53
<212> PRT
<213> Homo sapiens

<400> 3709
Met Arg Phe Leu Ala His Val Leu Cys Ser Phe Ser Val Val Phe Leu
1 5 10 15

His Leu Lys Asn Ser His Gly Ser Met Phe Tyr Lys Met Asn Tyr Gln
20 25 30

Arg Asn Arg Asp Gly Pro Arg Phe Ser Glu Met Val Pro Cys Asp Gln
35 40 45

Val Leu Leu Phe Gly
50

<210> 3710
<211> 35
<212> PRT
<213> Homo sapiens

<400> 3710
Met Asp Leu Phe Cys Ser Phe Leu Pro Ser Leu Leu Ala Ile Met Phe
1 5 10 15

Leu Cys Pro Pro Val Leu His Phe Met Gly Tyr His Val Gln Gln Gln
20 25 30

Leu Arg Arg
35

<210> 3711
<211> 11
<212> PRT
<213> Homo sapiens

<400> 3711

Met Ser His Cys Val Trp Ser Leu Ala Val Ser
1 5 10

<210> 3712
<211> 28
<212> PRT
<213> Homo sapiens

<400> 3712
Met Pro Glu Trp Trp Gly Gln Met Leu Trp Thr Leu Gly Pro Ala Ala
1 5 10 15

Leu Pro Leu Leu Ala Gly Arg Cys Thr Arg Glu Val
20 25

<210> 3713
<211> 38
<212> PRT
<213> Homo sapiens

<400> 3713
Met Phe Gly Asn Ser Ser Cys Ser Thr Tyr Leu Leu Trp Val Ser Leu
1 5 10 15

Phe Asn Phe Gly His Ser Ser Glu Cys Ile Met Ile Ser Cys Tyr Gly
20 25 30

Phe Lys Phe Ala Phe Ser
35

<210> 3714
<211> 66
<212> PRT
<213> Homo sapiens

<400> 3714
Met Cys Cys Pro Ser Leu Leu Lys Phe Tyr Phe Arg Phe Ser Ile Gly
1 5 10 15

Tyr Leu Phe Cys Phe Leu Tyr Phe Phe Ser Leu Ser Leu Pro Pro Ser
20 25 30

Arg Pro Pro Arg Pro Ile Pro Phe Leu Pro Leu Asp Phe His Pro Leu
35 40 45

Gly Cys Leu Ala His Leu Tyr Ala Pro Ala Leu Gly Thr Gly Pro Asn
50 55 60

Thr Trp
65

<210> 3715
<211> 36

<212> PRT
<213> Homo sapiens

<400> 3715
Met Phe Cys His Cys Ile Val Cys Leu Leu Leu Val Leu Trp Ser Ser
1 5 10 15

Leu Pro Phe Phe Ile Pro Ser Phe Leu Leu Leu Lys Val Ile Leu Ser
20 25 30

Cys Gly Met Ile
35

<210> 3716
<211> 25
<212> PRT
<213> Homo sapiens

<400> 3716
Met Met Thr Leu Gly Leu Ser Leu Phe Leu Phe Phe Cys Phe Val Gly
1 5 10 15

Cys Glu Phe Glu Arg Phe Cys Asp Lys
20 25

<210> 3717
<211> 38
<212> PRT
<213> Homo sapiens

<400> 3717
Met Asp Phe Thr Lys Leu Leu Thr Tyr Thr Phe Gly Phe Ala Val Phe
1 5 10 15

Ile Val Leu Gly Lys Asn Cys Gly Phe Lys Asn Tyr Ser Leu Ile Lys
20 25 30

Leu Leu Lys Lys Lys Lys
35

<210> 3718
<211> 33
<212> PRT
<213> Homo sapiens

<400> 3718
Met Phe Ile Gly Asp Ser Ala Tyr Ile Phe Ile Thr Tyr Leu Leu Phe
1 5 10 15

Trp Leu Leu Ser Asn Ile Leu Ser Phe Val Phe Ala Asn Ser Val His
20 25 30

Glu

<210> 3719
<211> 32
<212> PRT
<213> Homo sapiens

<400> 3719
Met Leu Lys Ile Leu Met Cys Lys Ser Pro Leu Ser Pro His Leu Phe
1 5 10 15

Tyr Lys Leu Leu Trp Leu Glu Gly Phe Cys Phe Trp Leu Leu Ser Gly
20 25 30

<210> 3720
<211> 406
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (254)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3720
Met Ile Arg Ile Ala Ala Leu Asn Ala Ser Ser Thr Ile Glu Asp Asp
1 5 10 15

His Glu Gly Ser Phe Lys Ser His Lys Thr Gln Thr Lys Glu Ala Gln
20 25 30

Glu Ala Glu Ala Phe Ala Leu Tyr His Lys Ala Leu Asp Leu Gln Lys
35 40 45

His Asp Arg Phe Glu Glu Ser Ala Lys Ala Tyr His Glu Leu Leu Glu
50 55 60

Ala Ser Leu Leu Arg Glu Ala Val Ser Ser Gly Asp Glu Lys Glu Gly
65 70 75 80

Leu Lys His Pro Gly Leu Ile Leu Lys Tyr Ser Thr Tyr Lys Asn Leu
85 90 95

Ala Gln Leu Ala Ala Gln Arg Glu Asp Leu Glu Thr Ala Met Glu Phe
100 105 110

Tyr Leu Glu Ala Val Met Leu Asp Ser Thr Asp Val Asn Leu Trp Tyr
115 120 125

Lys Ile Gly His Val Ala Leu Arg Leu Ile Arg Ile Pro Leu Ala Arg
130 135 140

His Ala Phe Glu Glu Gly Leu Arg Cys Asn Pro Asp His Trp Pro Cys
145 150 155 160

Leu Asp Asn Leu Ile Thr Val Leu Tyr Thr Leu Ser Asp Tyr Thr Thr

```
                165                 170                 175

Cys Leu Tyr Phe Ile Cys Lys Ala Leu Glu Lys Asp Cys Arg Tyr Ser
            180                 185                 190

Lys Gly Leu Val Leu Lys Glu Lys Ile Phe Glu Glu Gln Pro Cys Leu
        195                 200                 205

Arg Lys Asp Ser Leu Arg Met Phe Leu Lys Cys Asp Met Ser Ile His
    210                 215                 220

Asp Val Ser Val Ser Ala Ala Glu Thr Gln Ala Ile Val Asp Glu Ala
225                 230                 235                 240

Leu Gly Leu Arg Lys Lys Arg Gln Ala Leu Ile Val Arg Xaa Lys Glu
                245                 250                 255

Pro Asp Leu Lys Leu Val Gln Pro Ile Pro Phe Phe Thr Trp Lys Cys
            260                 265                 270

Leu Gly Glu Ser Leu Leu Ala Met Tyr Asn His Leu Thr Thr Cys Glu
        275                 280                 285

Pro Pro Arg Pro Ser Leu Gly Lys Arg Ile Asp Leu Ser Asp Tyr Gln
    290                 295                 300

Asp Pro Ser Gln Pro Leu Glu Ser Ser Met Val Val Thr Pro Val Asn
305                 310                 315                 320

Val Ile Gln Pro Ser Thr Val Ser Thr Asn Pro Ala Val Ala Val Ala
                325                 330                 335

Glu Pro Val Val Ser Tyr Thr Ser Val Ala Thr Thr Ser Phe Pro Leu
            340                 345                 350

His Ser Pro Gly Leu Leu Glu Thr Gly Ala Pro Val Gly Asp Ile Ser
        355                 360                 365

Gly Gly Asp Lys Ser Lys Lys Gly Val Lys Arg Lys Lys Ile Ser Glu
    370                 375                 380

Glu Ser Gly Glu Thr Ala Lys Arg Arg Ser Ala Arg Val Arg Asn Thr
385                 390                 395                 400

Lys Cys Lys Lys Lys Lys
                405
```

<210> 3721
<211> 58
<212> PRT
<213> Homo sapiens

<400> 3721

```
Met Pro Phe Cys Met Asn Ala Cys Glu Met Leu Leu Leu Leu Cys Met
  1               5                  10                  15

Ala Trp Leu Pro Trp Leu Ala Gly Ile Ser Ser Phe Val Val Phe Leu
             20                  25                  30
```

Ser Ser Leu Cys Ile Thr Val Ser Phe Val Phe Leu Ala Cys Lys Leu
35 40 45

Leu Glu Asp Lys Gly Met Ser Glu Ser Ile
50 55

<210> 3722
<211> 14
<212> PRT
<213> Homo sapiens

<400> 3722
Asn Ile Leu Phe Val Leu Ile Asp Ser Ile Leu Gly Ser Ser
1 5 10

<210> 3723
<211> 37
<212> PRT
<213> Homo sapiens

<400> 3723
Met Val Trp Ile Cys Val Leu Leu Gln Thr Leu Leu Arg His Ile Leu
1 5 10 15

Arg Ser Met Glu Arg Asn Arg Val Asp Asp Lys Val Cys Val Val Phe
20 25 30

Thr Lys Glu Tyr Ser
35

<210> 3724
<211> 410
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (404)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (409)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3724
Gly Arg Leu Arg Asn Gly Ile Xaa Gly Ala Ala Gly Ile Pro Arg Ala
1 5 10 15

Asn Ala Ser Arg Thr Asn Phe Ser Ser His Thr Asn Gln Ser Gly Gly

FIGURE 4 SEQUENCE LISTING

```
            20                  25                  30

Ser Glu Leu Arg Gln Arg Glu Gly Gln Arg Phe Gly Ala Ala His Val
        35                  40                  45

Trp Glu Asn Gly Ala Arg Ser Asn Val Thr Val Arg Asn Thr Asn Gln
    50                  55                  60

Arg Leu Glu Pro Ile Arg Leu Arg Ser Thr Ser Asn Ser Arg Ser Arg
65                  70                  75                  80

Ser Pro Ile Gln Arg Gln Ser Gly Thr Val Tyr His Asn Ser Gln Arg
                85                  90                  95

Glu Ser Arg Pro Val Gln Gln Thr Thr Arg Arg Ser Val Arg Arg Arg
            100                 105                 110

Gly Arg Thr Arg Val Phe Leu Glu Gln Asp Arg Glu Arg Glu Arg Arg
        115                 120                 125

Gly Thr Ala Tyr Thr Pro Phe Ser Asn Ser Arg Leu Val Ser Arg Ile
    130                 135                 140

Thr Val Glu Glu Gly Glu Glu Ser Ser Arg Ser Ser Thr Ala Val Arg
145                 150                 155                 160

Arg His Pro Thr Ile Thr Leu Asp Leu Gln Val Arg Arg Ile Arg Pro
                165                 170                 175

Gly Glu Asn Arg Asp Arg Asp Ser Ile Ala Asn Arg Thr Arg Ser Arg
            180                 185                 190

Val Gly Leu Ala Glu Asn Thr Val Thr Ile Glu Ser Asn Ser Gly Gly
        195                 200                 205

Phe Arg Arg Thr Ile Ser Arg Leu Glu Arg Ser Gly Ile Arg Thr Tyr
    210                 215                 220

Val Ser Thr Ile Thr Val Pro Leu Arg Arg Ile Ser Glu Asn Glu Leu
225                 230                 235                 240

Val Glu Pro Ser Ser Val Ala Leu Arg Ser Ile Leu Arg Gln Ile Met
                245                 250                 255

Thr Gly Phe Gly Glu Leu Ser Ser Leu Met Glu Ala Asp Ser Glu Ser
            260                 265                 270

Glu Leu Gln Arg Asn Gly Gln His Leu Pro Asp Met His Ser Glu Leu
        275                 280                 285

Ser Asn Leu Gly Thr Asp Asn Asn Arg Ser Gln His Arg Glu Gly Ser
    290                 295                 300

Ser Gln Asp Arg Gln Ala Gln Gly Asp Ser Thr Glu Met His Gly Glu
305                 310                 315                 320

Asn Glu Thr Thr Gln Pro His Thr Arg Asn Ser Asp Ser Arg Gly Gly
                325                 330                 335

Arg Gln Leu Arg Asn Pro Asn Asn Leu Val Glu Thr Gly Thr Leu Pro
            340                 345                 350
```

```
Ile Leu Arg Leu Ala His Phe Phe Leu Leu Asn Glu Ser Asp Asp Asp
        355                 360                 365

Asp Arg Ile Arg Gly Leu Thr Lys Glu Gln Ile Asp Asn Leu Ser Thr
    370                 375                 380

Arg His Tyr Glu His Asn Ser Ile Asp Ser Glu Leu Gly Lys Ile Cys
385                 390                 395                 400

Ser Val Ser Xaa Ala Glu Phe Trp Xaa Pro
                405                 410
```

WO 2005/089286 PCT/US2005/008468

```
<210> 3725
<211> 37
<212> PRT
<213> Homo sapiens

<400> 3725
Met Ala Asp Ala Thr Cys Thr Leu Leu Val Ile Phe Cys Val Met Gly
  1               5                  10                  15

Tyr Glu Met Val His Arg Lys Lys Pro Glu Lys Tyr Ala Lys Val Arg
             20                  25                  30

Phe Ile Leu Arg Val
         35
```

```
<210> 3726
<211> 26
<212> PRT
<213> Homo sapiens

<400> 3726
Met Asp Leu Val Glu Ala Phe Asn His Ser Arg Gly Pro Gln Val Met
  1               5                  10                  15

Leu Ile Ser Leu Leu Ala Gly Val Leu Val
             20                  25
```

```
<210> 3727
<211> 35
<212> PRT
<213> Homo sapiens

<400> 3727
Met Trp Ser Arg Met Val Arg Ser Leu Trp Tyr Ile Met Phe Thr Trp
  1               5                  10                  15

Gln Gly Gly Ser Cys Val Leu Ser Gly Thr Gly Ser Leu Leu Ser Tyr
             20                  25                  30

Thr Arg Thr
         35
```

<210> 3728
<211> 224
<212> PRT
<213> Homo sapiens

<400> 3728
Met Leu Arg Ala Pro Gly Cys Leu Leu Arg Thr Ser Val Ala Pro Ala
  1   5   10   15

Ala Ala Leu Ala Ala Ala Leu Leu Ser Ser Leu Ala Arg Cys Ser Leu
             20   25   30

Leu Glu Pro Arg Asp Pro Val Ala Ser Ser Leu Ser Pro Tyr Phe Gly
         35   40   45

Thr Lys Thr Arg Tyr Glu Asp Val Asn Pro Val Leu Leu Ser Gly Pro
     50   55   60

Glu Ala Pro Trp Arg Asp Pro Glu Leu Leu Glu Gly Thr Cys Thr Pro
 65   70   75   80

Val Gln Leu Val Ala Leu Ile Arg His Gly Thr Arg Tyr Pro Thr Val
                 85   90   95

Lys Gln Ile Arg Lys Leu Arg Gln Leu His Gly Leu Leu Gln Ala Arg
            100   105   110

Gly Ser Arg Asp Gly Gly Ala Ser Ser Thr Gly Ser Arg Asp Leu Gly
        115   120   125

Ala Ala Leu Ala Asp Trp Pro Leu Trp Tyr Ala Asp Trp Met Asp Gly
    130   135   140

Gln Leu Val Glu Lys Gly Arg Gln Asp Met Arg Gln Leu Ala Leu Arg
145   150   155   160

Leu Ala Ser Leu Phe Pro Ala Leu Phe Ser Arg Glu Asn Tyr Gly Arg
                165   170   175

Cys Gly Ser Ser Pro Val Pro Ser Thr Ala Ala Trp Ile Ala Ala Pro
            180   185   190

Pro Ser Cys Arg Gly Cys Gly Ser Thr Thr Thr Leu Ala Cys Arg Arg
        195   200   205

Arg Thr Ser Gln Ile Trp Ser Leu Asp Leu Gln Gln Leu Met Ile Asn
    210   215   220

<210> 3729
<211> 11
<212> PRT
<213> Homo sapiens

<400> 3729

```
Met Trp Pro Trp Asp Met Val Phe Ser Trp Ser
  1               5                  10
```

<210> 3730
<211> 51
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3730
```
Met Thr Val Val Thr Ala Leu Leu Leu Ile Ile Leu Gln Thr Arg Asn
  1               5                  10                  15

Leu Asn Ser Gly Gln Ile Ser Val Lys Asn Trp Gln Met Phe Phe Met
             20                  25                  30

Arg Thr Leu Ile Met Asn Leu Ser Ala Ala Phe Gln Lys Val Arg Cys
         35                  40                  45

Lys Met Xaa
     50
```

<210> 3731
<211> 40
<212> PRT
<213> Homo sapiens

<400> 3731
```
Met Phe Trp Ile Pro Trp Val Leu Val Leu Cys Ser Ser Leu Pro Thr
  1               5                  10                  15

Cys Ala Gln Asp Ala Ala Leu Gly Ser Ser Thr His Gly Ser Phe Cys
             20                  25                  30

Trp Asp Gly Val Thr Tyr Gly Phe
         35                  40
```

<210> 3732
<211> 34
<212> PRT
<213> Homo sapiens

<400> 3732
```
Met Leu Ser Gln Cys Leu Leu Gln Phe Val Val Trp Val Phe Phe Phe
  1               5                  10                  15

Leu Lys Pro His Asn Asn Phe Gly Lys Gln Cys Met Gly Arg Thr Cys
             20                  25                  30

Val Cys
```

<210> 3733
<211> 25
<212> PRT
<213> Homo sapiens

<400> 3733
Met Tyr Phe Cys Asp Thr Val Ile Met Phe Cys Ile Cys Leu Ile Leu
1 5 10 15

Ala Asp Leu Gln Tyr Ala Ile Lys Val
20 25

<210> 3734
<211> 45
<212> PRT
<213> Homo sapiens

<400> 3734
Met Arg Trp Thr Cys Leu Leu Gly Thr Pro Gly His Pro Leu Phe Phe
1 5 10 15

Leu Leu Cys Ala Trp Ser Ile Met Ser Thr Pro Ala Asp Pro Trp Lys
20 25 30

Arg Lys Cys Leu Cys Cys Arg Val Leu His Gly His Glu
35 40 45

<210> 3735
<211> 36
<212> PRT
<213> Homo sapiens

<400> 3735
Met Leu Tyr Leu Asn Met Asn Gly Lys Phe Trp Phe Leu Ala Phe Thr
1 5 10 15

Phe Tyr Tyr Leu Asn Phe Ile Asn Ala Asn Ile Ser Phe Val Ile Ser
20 25 30

Tyr Ser Ile Ser
35

<210> 3736
<211> 36
<212> PRT
<213> Homo sapiens

<400> 3736
Met Leu Tyr Leu Asn Met Asn Gly Lys Phe Trp Phe Leu Ala Phe Thr
1 5 10 15

Phe Tyr Tyr Leu Asn Phe Ile Asn Ala Asn Ile Ser Phe Val Ile Ser

```
            20                  25                  30

Tyr Ser Ile Ser
         35
```

<210> 3737
<211> 36
<212> PRT
<213> Homo sapiens

<400> 3737

```
Met Leu Tyr Leu Asn Met Asn Gly Lys Phe Trp Phe Leu Ala Phe Thr
  1               5                  10                  15

Phe Tyr Tyr Leu Asn Phe Ile Asn Ala Asn Ile Ser Phe Val Ile Ser
            20                  25                  30

Tyr Ser Ile Ser
         35
```

<210> 3738
<211> 70
<212> PRT
<213> Homo sapiens

<400> 3738

```
Met Pro Trp Cys Pro Cys Trp Thr Val Leu Thr Ser Lys Pro Phe Leu
  1               5                  10                  15

Ser Met Leu Pro Ala Cys Ser Ala Trp Pro Arg Ser Thr Phe Ser Ser
            20                  25                  30

Arg Thr Ser Val Trp Lys Ser Leu Arg Ser Pro Arg Leu Ser Trp Arg
         35                  40                  45

Asn Thr Thr Arg Leu Gln Cys Phe Ser Pro Ser Asn Ser Cys Ser Gly
     50                  55                  60

Met Ser Tyr Phe Ala Ser
 65                  70
```

<210> 3739
<211> 45
<212> PRT
<213> Homo sapiens

<400> 3739

```
Met Gly Val Phe Asp Pro Thr Glu Ile His Asn Arg Gly Gln Leu Lys
  1               5                  10                  15

Ser His Met Lys Glu Ala Met Ile Lys Leu Gly Phe His Leu Leu Cys
            20                  25                  30

Phe Phe Met Tyr Leu Tyr Ser Gly Ser Asn Cys Pro Cys
         35                  40                  45
```

<210> 3740
<211> 29
<212> PRT
<213> Homo sapiens

<400> 3740
Met Val Leu Val Leu Leu Cys Val Gly Pro Leu Gly Thr Gln Ala Gly
1 5 10 15

Ala Asn Gly Ile Trp Ala Glu Leu Thr Glu Phe Leu Glu
20 25

<210> 3741
<211> 58
<212> PRT
<213> Homo sapiens

<400> 3741
Met Leu Leu Leu Val Ser Val Phe Ser Pro Val Leu Phe Ser Arg Ser
1 5 10 15

Ser Thr Val Glu Met Asp Val Glu Pro Phe Cys Leu Val Leu Ser Ser
20 25 30

Ala Phe Pro Glu Ile Thr Pro Pro Ile Ser Cys Leu Cys Leu Asn Met
35 40 45

Phe Phe Ser Leu Leu Arg Ser Pro His Ser
50 55

<210> 3742
<211> 33
<212> PRT
<213> Homo sapiens

<400> 3742
Met Val Cys Ala Cys Leu Leu Ser Leu Arg Leu Gly Leu Leu Thr Glu
1 5 10 15

Cys Glu Tyr Lys Tyr Pro Tyr Leu Gly Glu Lys Tyr Ile Phe Lys Gly
20 25 30

Trp

<210> 3743
<211> 33
<212> PRT
<213> Homo sapiens

<400> 3743
Met Phe Cys Ser Leu Leu Phe Ser Gln Tyr Val Gln Trp Leu Leu Ala

```
  1               5                  10                  15

Gln Asn Arg Gln Tyr Ser Leu Thr Glu Cys Tyr Trp Thr Leu Ser Val
             20                  25                  30

Tyr
```

WO 2004/063355 PCT/US2003/040576

<210> 3744
<211> 290
<212> PRT
<213> Homo sapiens

<400> 3744

```
Met Ala Val Thr Ala Gln Val Lys Ser Leu Thr Gln Lys Val Gln Ala
  1               5                  10                  15

Gly Ala Tyr Pro Thr Glu Lys Gly Leu Ser Phe Leu Glu Val Lys Asp
             20                  25                  30

Gln Leu Leu Leu Met Tyr Leu Met Asp Leu Thr His Leu Ile Leu Asp
         35                  40                  45

Lys Ala Ser Gly Gly Ser Leu Gln Gly His Asp Ala Val Leu Arg Leu
     50                  55                  60

Val Glu Ile Arg Thr Val Leu Glu Lys Leu Arg Pro Leu Asp Gln Lys
 65                  70                  75                  80

Leu Lys Tyr Gln Ile Asp Lys Leu Ile Lys Thr Ala Val Thr Gly Ser
                 85                  90                  95

Leu Ser Glu Asn Asp Pro Leu Arg Phe Lys Pro His Pro Ser Asn Met
            100                 105                 110

Met Ser Lys Leu Ser Ser Glu Asp Glu Glu Glu Asp Glu Ala Glu Asp
        115                 120                 125

Asp Gln Ser Glu Ala Ser Gly Lys Lys Ser Val Lys Gly Val Ser Lys
    130                 135                 140

Lys Tyr Val Pro Pro Arg Leu Val Pro Val His Tyr Asp Glu Thr Glu
145                 150                 155                 160

Ala Glu Arg Glu Lys Lys Arg Leu Glu Arg Ala Lys Arg Arg Ala Leu
                165                 170                 175

Ser Ser Ser Val Ile Arg Glu Leu Lys Glu Gln Tyr Ser Asp Ala Pro
            180                 185                 190

Glu Glu Ile Arg Asp Ala Arg His Pro His Val Thr Arg Gln Ser Gln
        195                 200                 205

Glu Asp Gln His Arg Ile Asn Tyr Glu Glu Ser Met Met Val Arg Leu
    210                 215                 220

Ser Val Ser Lys Arg Glu Lys Gly Arg Arg Lys Arg Ala Asn Val Met
225                 230                 235                 240
```

```
Ser Ser Gln Leu His Ser Leu Thr His Phe Ser Asp Ile Ser Ala Leu
                245                 250                 255

Thr Gly Gly Thr Val His Leu Asp Glu Asp Gln Asn Pro Ile Lys Lys
            260                 265                 270

Arg Lys Lys Ile Pro Gln Lys Gly Arg Lys Lys Lys Gly Phe Arg Arg
        275                 280                 285

Arg Arg
    290
```

PCT/US2005/000000

<210> 3745
<211> 24
<212> PRT
<213> Homo sapiens

<400> 3745
```
Met Gly Gly Thr Pro Ser Thr Lys Cys Leu Val Thr Ser Ala Trp Ser
  1               5                  10                  15

Gly Phe Ser Ala Cys Thr Pro Cys
             20
```

<210> 3746
<211> 25
<212> PRT
<213> Homo sapiens

<400> 3746
```
Met Thr Arg Ser Leu Val Leu Arg Phe Lys Val Leu Leu Met Leu Gly
  1               5                  10                  15

Leu Leu Ile Glu Val Ser Glu Glu Leu
             20                  25
```

<210> 3747
<211> 73
<212> PRT
<213> Homo sapiens

<400> 3747
```
Met Pro Ser Leu Trp Asp Arg Phe Ser Ser Ser Ser Thr Phe Gln Leu
  1               5                  10                  15

Thr Leu Val Leu Arg Leu Asp Ser Arg Leu Trp Pro Lys Ile Gln Gly
             20                  25                  30

Leu Phe Ser Ser Ala Asn Ser Pro Phe Leu Pro Gly Phe Ser Gln Ser
         35                  40                  45

Leu Thr Leu Ser Thr Gly Phe Arg Val Ile Lys Lys Lys Leu Tyr Ser
     50                  55                  60

Ser Glu Gln Leu Leu Ile Glu Glu Cys
```

65 70

<210> 3748
<211> 55
<212> PRT
<213> Homo sapiens

<400> 3748
Met Pro His Pro Pro Leu Pro Glu Thr Ser Leu Glu Ala Gln Leu Pro
1 5 10 15

Met Gly Leu Leu Gln Leu Leu Arg Cys Ser Val Gln Ala Trp Ser Pro
20 25 30

Pro Pro Ser Ser Phe Cys Pro Gly Ser Glu Pro Arg Ser Ala Ser Ala
35 40 45

His Trp Gly Tyr Trp Trp Pro
50 55

<210> 3749
<211> 27
<212> PRT
<213> Homo sapiens

<400> 3749
Met Pro Ile Ser Val Ser Ser Phe Cys Ala Ala Val Ile Val Gly Leu
1 5 10 15

Pro Val Ser Phe Glu Leu Trp Ala Leu Pro Gly
20 25

<210> 3750
<211> 33
<212> PRT
<213> Homo sapiens

<400> 3750
Met Ile Val Val Val Leu Trp Ile Asn Leu Cys Ser Trp Phe Cys Phe
1 5 10 15

Val Ser Pro Leu Pro Lys Cys Ser Phe Gln Tyr Tyr Thr Arg Lys Arg
20 25 30

Ser

<210> 3751
<211> 67
<212> PRT
<213> Homo sapiens

<220>

<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3751
Met Val Leu Met Gly Ile Phe Phe Ser Thr Leu Phe Val Phe Met Asp
1 5 10 15

Ser Gly Thr Trp Ala Ser Ser Ile Phe Phe His Leu Met Thr Cys Val
20 25 30

Leu Ser Leu Gly Val Val Leu Pro Trp Leu His Arg Xaa Ile Arg Arg
35 40 45

Ile Pro Cys Ser Gly Phe Phe Ser Phe Ser Ser Arg Gln Thr Pro Ala
50 55 60

Ser Thr Ser
65

<210> 3752
<211> 7
<212> PRT
<213> Homo sapiens

<400> 3752
Val Gly Ile Leu Cys Leu Trp
1 5

<210> 3753
<211> 144
<212> PRT
<213> Homo sapiens

<400> 3753
Met Asp Val Arg Lys Leu Asp Phe Pro Ser Ala Ser Phe Asp Val Val
1 5 10 15

Leu Glu Lys Gly Thr Leu Asp Ala Leu Leu Ala Gly Glu Arg Asp Pro
20 25 30

Trp Thr Val Ser Pro Glu Gly Val His Thr Val Asp Gln Val Leu Ser
35 40 45

Glu Val Ser Arg Val Leu Val Pro Gly Gly Arg Phe Ile Ser Met Thr
50 55 60

Ser Ala Ala Pro His Phe Arg Thr Arg His Tyr Ala Gln Ala Tyr Tyr
65 70 75 80

Gly Trp Ser Leu Arg His Ala Thr Tyr Gly Ser Gly Phe His Phe His
85 90 95

Leu Tyr Leu Met His Lys Gly Gly Lys Leu Ser Val Ala Gln Leu Ala
100 105 110

Leu Gly Ala Gln Ile Leu Ser Pro Pro Arg Thr Pro Thr Ser Pro Cys

115 120 125

Phe Leu Gln Asp Ser Asp His Glu Asp Phe Leu Ser Ala Ile Gln Leu
130 135 140

<210> 3754
<211> 18
<212> PRT
<213> Homo sapiens

<400> 3754
Val Leu Cys Ser Leu Ser Cys Met Leu Lys Leu Gly Val Cys Trp Arg
1 5 10 15

Ala Ser

<210> 3755
<211> 96
<212> PRT
<213> Homo sapiens

<400> 3755
Met Glu Gly Thr Leu Trp Trp Pro Leu Arg Leu Ser Leu Phe Leu Ala
1 5 10 15

Gly Phe Pro Gly Ala Thr Trp Pro Ala Ala Val Gly Glu Val Leu Val
20 25 30

Gly Glu Cys Gln Ser Glu Pro Thr Gln Ala Thr Ser Trp Gln Trp Arg
35 40 45

His Ser His Pro Gly Gln Gly Gln Asp Leu Gly Ile Ser Ser Asp Leu
50 55 60

Ser Gly Gln Arg His Glu Val Arg Tyr Ala Leu Gly Ala Cys Ser Lys
65 70 75 80

Gly Asp Lys Glu Glu Gly Thr Ser Trp Trp Gly Val Glu Lys Asp Pro
85 90 95

<210> 3756
<211> 15
<212> PRT
<213> Homo sapiens

<400> 3756
Met Leu His Phe Cys Phe Ile Phe Tyr Phe Ser Leu Leu Cys Phe
1 5 10 15

<210> 3757
<211> 24
<212> PRT
<213> Homo sapiens

<400> 3757
Glu Lys Arg Arg Lys Lys Ala Arg Ser Thr Gly Asn Leu Gly Cys Gly
1 5 10 15

Thr Met Ser Arg Arg Met Arg Thr
20

<210> 3758
<211> 148
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (128)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3758
Met Ala Lys Phe Arg Arg Arg Thr Cys Ile Ile Leu Ala Leu Phe Ile
1 5 10 15

Leu Phe Ile Phe Ser Leu Met Met Gly Leu Lys Met Leu Arg Pro Asn
20 25 30

Thr Ala Thr Phe Gly Ala Pro Phe Gly Leu Asp Leu Leu Pro Glu Leu
35 40 45

His Gln Arg Thr Ile His Leu Gly Lys Asn Phe Asp Phe Gln Lys Ser
50 55 60

Asp Arg Ile Asn Ser Glu Thr Asn Thr Lys Asn Leu Lys Ser Val Glu
65 70 75 80

Ile Thr Met Lys Pro Ser Lys Ala Ser Glu Leu Asn Leu Asp Glu Leu
85 90 95

Pro Pro Leu Asn Asn Tyr Leu His Val Phe Tyr Tyr Ser Trp Tyr Gly
100 105 110

Asn Pro Gln Phe Asp Gly Lys Tyr Ile His Trp Asn His Pro Val Xaa
115 120 125

Glu His Trp Asp Pro Arg Ile Ala Lys Asn Tyr Pro Gln Gly Arg His
130 135 140

Asn Pro Ser Arg
145

<210> 3759

<211> 14
<212> PRT
<213> Homo sapiens

<400> 3759
Met Pro Glu Ala His Gly Pro Ser Glu Gly Leu Trp Gly Thr
1 5 10

<210> 3760
<211> 36
<212> PRT
<213> Homo sapiens

<400> 3760
Met Tyr Ile Asn Ser Met Phe Ile Phe Phe Ser Ile Leu Ser Asp Thr
1 5 10 15

Val Leu Ala Ala Gly Leu Leu Lys Pro Ser Leu Val Val Ile Glu Ser
20 25 30

Phe Pro Leu Leu
35

<210> 3761
<211> 25
<212> PRT
<213> Homo sapiens

<400> 3761
Met Gly Leu His Leu Thr Phe Leu Val Ile Leu Val Asp Gln Met Pro
1 5 10 15

Leu Gly His Gln Ser Leu Leu Gln Asp
20 25

<210> 3762
<211> 377
<212> PRT
<213> Homo sapiens

<400> 3762
Met Gly Leu Asn Glu Glu Gln Lys Glu Phe Gln Lys Val Ala Phe Asp
1 5 10 15

Phe Ala Ala Arg Glu Met Ala Pro Asn Met Ala Glu Trp Asp Gln Lys
20 25 30

Glu Leu Phe Pro Val Asp Val Met Arg Lys Ala Ala Gln Leu Gly Phe
35 40 45

Gly Gly Val Tyr Ile Gln Thr Asp Val Gly Gly Ser Gly Leu Ser Arg
50 55 60

Leu Asp Thr Ser Val Ile Phe Glu Ala Leu Ala Thr Gly Cys Thr Ser
65 70 75 80

Thr Thr Ala Tyr Ile Ser Ile His Asn Met Cys Ala Trp Met Ile Asp
85 90 95

Ser Phe Gly Asn Glu Glu Gln Arg His Lys Phe Cys Pro Pro Leu Cys
100 105 110

Thr Met Glu Lys Phe Ala Ser Tyr Cys Leu Thr Glu Pro Gly Ser Gly
115 120 125

Ser Asp Ala Ala Ser Leu Leu Thr Ser Ala Lys Lys Gln Gly Asp His
130 135 140

Tyr Ile Leu Asn Gly Ser Lys Ala Phe Ile Ser Gly Ala Gly Glu Ser
145 150 155 160

Asp Ile Tyr Val Val Met Cys Arg Thr Gly Gly Pro Gly Pro Lys Gly
165 170 175

Ile Ser Cys Ile Val Val Glu Lys Gly Thr Pro Gly Leu Ser Phe Gly
180 185 190

Lys Lys Glu Lys Lys Val Gly Trp Asn Ser Gln Pro Thr Arg Ala Val
195 200 205

Ile Phe Glu Asp Cys Ala Val Pro Val Ala Asn Arg Ile Gly Ser Glu
210 215 220

Gly Gln Gly Phe Leu Ile Ala Val Arg Gly Leu Asn Gly Gly Arg Ile
225 230 235 240

Asn Ile Ala Ser Cys Ser Leu Gly Ala Ala His Ala Ser Val Ile Leu
245 250 255

Thr Arg Asp His Leu Asn Val Arg Lys Gln Phe Gly Glu Pro Leu Ala
260 265 270

Ser Asn Gln Tyr Leu Gln Phe Thr Leu Ala Asp Met Ala Thr Arg Leu
275 280 285

Val Ala Ala Arg Leu Met Val Arg Asn Ala Ala Val Ala Leu Gln Glu
290 295 300

Glu Arg Lys Asp Ala Val Ala Leu Cys Ser Met Ala Lys Leu Phe Ala
305 310 315 320

Thr Asp Glu Cys Phe Ala Ile Cys Asn Gln Ala Leu Gln Met His Gly
325 330 335

Gly Tyr Gly Tyr Leu Lys Asp Tyr Ala Val Gln Gln Tyr Val Arg Asp
340 345 350

Ser Arg Val His Gln Ile Leu Glu Gly Ser Asn Glu Val Met Arg Ile
355 360 365

Leu Ile Ser Arg Ser Leu Leu Gln Glu
370 375

<210> 3763

<211> 175
<212> PRT
<213> Homo sapiens

<400> 3763
Met Asp Leu Ala Gly Arg Lys Val Leu Leu Phe Val Ser Ala Ala Ile
1 5 10 15

Met Phe Ala Ala Asn Leu Thr Leu Gly Leu Tyr Ile His Phe Gly Pro
20 25 30

Arg Pro Leu Ser Pro Asn Ser Thr Ala Gly Leu Glu Ser Glu Ser Trp
35 40 45

Gly Asp Leu Ala Gln Pro Leu Ala Ala Pro Ala Gly Tyr Leu Thr Leu
50 55 60

Val Pro Leu Leu Ala Thr Met Leu Phe Ile Met Gly Tyr Ala Val Gly
65 70 75 80

Trp Gly Pro Ile Thr Trp Leu Leu Met Ser Glu Val Leu Pro Leu Arg
85 90 95

Ala Arg Gly Val Ala Ser Gly Leu Cys Val Leu Ala Ser Trp Leu Thr
100 105 110

Ala Phe Val Leu Thr Lys Ser Phe Leu Pro Val Val Ser Thr Phe Gly
115 120 125

Leu Gln Val Pro Phe Phe Phe Phe Ala Ala Ile Cys Leu Val Ser Leu
130 135 140

Val Phe Thr Gly Cys Cys Val Pro Glu Thr Lys Gly Arg Ser Leu Glu
145 150 155 160

Gln Ile Glu Ser Phe Phe Arg Thr Gly Arg Arg Ser Phe Leu Arg
165 170 175

<210> 3764
<211> 31
<212> PRT
<213> Homo sapiens

<400> 3764
Met Trp Phe Met Ser Asn Ser Ala Val Leu Leu Trp Leu Trp Phe Lys
1 5 10 15

Phe Leu Met Phe Lys Val Asp Ala Val Phe Arg Arg Ala Phe Tyr
20 25 30

<210> 3765
<211> 59
<212> PRT
<213> Homo sapiens

<220>
<221> SITE

<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3765
Met Trp Ala Lys Val Pro Pro Pro His Lys Ala Leu Gly Ser Pro Arg
1 5 10 15

Ser Pro His Arg Gln Thr Trp Gly Ser Arg Pro Arg Val Gly Pro Arg
20 25 30

Glu Glu Gly Leu Xaa Val Gly Arg Gly Ile Thr Glu Trp Lys Glu Ile
35 40 45

Glu Gly Ala Glu Ser Ala Phe Ala Val Met Ser
50 55

<210> 3766
<211> 48
<212> PRT
<213> Homo sapiens

<400> 3766
Met Lys Ala Thr Arg His Trp Ala Pro Val Leu Leu Glu Trp Thr Phe
1 5 10 15

Cys Lys Arg Pro Cys His His Leu Pro Arg Lys Phe Pro Ser Val Val
20 25 30

Leu Cys Ile Ile Ile Tyr Lys Ile Thr Tyr Phe Asp Asp Gln Arg Ser
35 40 45

<210> 3767
<211> 11
<212> PRT
<213> Homo sapiens

<400> 3767
Met Arg Leu Leu Val Leu Phe Cys Phe Ile Asn
1 5 10

<210> 3768
<211> 417
<212> PRT
<213> Homo sapiens

<400> 3768
Asn Ser Arg Val Asp Pro Arg Val Arg Gly Glu Ile Pro Ile Ser Ser
1 5 10 15

Ser Gln Thr Asn Arg Ser Ser Phe Asp Leu Leu Pro Arg Glu Phe Arg
20 25 30

Leu Val Glu Val His Asp Pro Pro Leu His Gln Pro Ser Ala Asn Lys
35 40 45

Pro Lys Pro Pro Thr Met Leu Asp Ile Pro Ser Glu Pro Cys Ser Leu
50 55 60

Thr Ile His Thr Ile Gln Leu Ile Gln His Asn Arg Arg Leu Arg Asn
65 70 75 80

Leu Ile Ala Thr Ala Gln Ala Gln Asn Gln Gln Gln Thr Glu Gly Val
85 90 95

Lys Thr Glu Glu Ser Glu Pro Leu Pro Ser Cys Pro Gly Ser Pro Pro
100 105 110

Leu Pro Asp Asp Leu Leu Pro Leu Asp Cys Lys Asn Pro Asn Ala Pro
115 120 125

Phe Gln Ile Arg His Ser Asp Pro Glu Ser Asp Phe Tyr Arg Gly Lys
130 135 140

Gly Glu Pro Val Thr Glu Leu Ser Trp His Ser Cys Arg Gln Leu Leu
145 150 155 160

Tyr Gln Ala Val Ala Thr Ile Leu Ala His Ala Gly Phe Asp Cys Ala
165 170 175

Asn Glu Ser Val Leu Glu Thr Leu Thr Asp Val Ala His Glu Tyr Cys
180 185 190

Leu Lys Phe Thr Lys Leu Leu Arg Phe Ala Val Asp Arg Glu Ala Arg
195 200 205

Leu Gly Gln Thr Pro Phe Pro Leu Asn Gly Lys Glu Gln Gly Phe His
210 215 220

Glu Val Gly Ile Gly Ser Val Leu Ser Leu Gln Lys Phe Trp Gln His
225 230 235 240

Arg Ile Lys Asp Tyr His Ser Tyr Met Leu Gln Ile Ser Lys Gln Leu
245 250 255

Ser Glu Glu Tyr Glu Arg Ile Val Asn Pro Glu Lys Ala Thr Glu Asp
260 265 270

Ala Lys Pro Val Lys Ile Lys Glu Glu Pro Val Ser Asp Ile Thr Phe
275 280 285

Pro Val Ser Glu Glu Leu Glu Ala Asp Leu Ala Ser Gly Asp Gln Ser
290 295 300

Leu Pro Met Gly Val Leu Gly Ala Gln Ser Glu Arg Phe Pro Ser Asn
305 310 315 320

Leu Glu Val Glu Ala Ser Pro Gln Ala Ser Ser Ala Glu Val Asn Ala
325 330 335

Ser Pro Leu Trp Asn Leu Ala His Val Lys Met Glu Pro Gln Glu Ser
340 345 350

Glu Glu Gly Asn Val Ser Gly His Gly Val Leu Gly Ser Asp Val Phe

355 360 365

Glu Glu Pro Ile Ser Gly Met Ser Glu Ala Gly Ile Pro Gln Ser Pro
370 375 380

Asp Asp Ser Asp Ser Ser Tyr Gly Ser His Ser Thr Asp Ser Leu Met
385 390 395 400

Gly Ser Ser Pro Val Phe Asn Gln Arg Cys Lys Lys Arg Met Arg Lys
405 410 415

Ile

<210> 3769
<211> 38
<212> PRT
<213> Homo sapiens

<400> 3769
Met Leu Ser Gly Tyr Pro Leu Ser Phe Phe Leu Leu Thr Ile Cys Leu
1 5 10 15

Val Val Leu Thr Ala Arg Gly Thr Glu Gly Leu Cys Pro Gly Ile Trp
20 25 30

Arg Pro Ala Leu Phe Thr
35

<210> 3770
<211> 19
<212> PRT
<213> Homo sapiens

<400> 3770
Met Leu Leu Phe Leu Leu Leu Leu Leu Leu Ser Ser Leu Leu Ala Leu
1 5 10 15

Asn Asp Cys

<210> 3771
<211> 30
<212> PRT
<213> Homo sapiens

<400> 3771
Met Gly Ala Pro Thr Arg Lys Cys Ser Val Gln Trp Leu Ser Leu Ser
1 5 10 15

Val Pro Phe Leu Ser Ala Gln Cys Ser Ala Trp Arg Ser Ile
20 25 30

<210> 3772
<211> 31
<212> PRT
<213> Homo sapiens

<400> 3772
Met Gln Ser His Phe Leu Lys Asp Phe His Pro Asp Pro Ala Leu Asp
1 5 10 15

Lys His Phe Leu Leu Phe Arg Ser Lys Thr Tyr Lys Ser Cys Lys
20 25 30

<210> 3773
<211> 37
<212> PRT
<213> Homo sapiens

<400> 3773
Met Pro Phe Lys Tyr Leu Phe Met Gly Phe Ile Ser His Ile Leu Ser
1 5 10 15

Ala Pro Ser Ser Glu Thr Leu His Leu Phe His Leu Pro Ser Lys Glu
20 25 30

Ser Glu Ala Asp Asp
35

<210> 3774
<211> 44
<212> PRT
<213> Homo sapiens

<400> 3774
Met Ser Gly Cys Gly Ala Ser Gly Met Asn Leu Phe His Val Leu Cys
1 5 10 15

Trp Glu Leu Ala Leu Gly Asp His Asn Pro Gln Ser Pro Gln His Gln
20 25 30

Gly Lys Val Pro Gly Ala Gln Glu Gly Lys Pro Thr
35 40

<210> 3775
<211> 33
<212> PRT
<213> Homo sapiens

<400> 3775
Met Ala Thr Pro Ser Phe Leu Phe Phe Phe Leu Leu Leu Asn Phe Asn
1 5 10 15

Ser Ser Phe Val Trp Leu Phe Ser Phe Leu Cys Leu Phe Pro Val Lys
20 25 30

Leu

<210> 3776
<211> 44
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3776
Met Cys Pro Leu Pro Met Leu Xaa Ser Leu Leu Thr Phe Ser Phe Phe
1 5 10 15

Ser Leu Ser Tyr Leu Leu Leu Leu Trp Ser Ser Ser Asn Ser Ser Ser
20 25 30

Val His Leu Asn Ser Thr Phe Xaa Asp Pro Val Gly
35 40

<210> 3777
<211> 25
<212> PRT
<213> Homo sapiens

<400> 3777
His Leu Leu Ile Tyr Arg Ile Phe Ile Cys Thr Cys Phe His Leu Phe
1 5 10 15

Val Val Asn Phe Leu Arg Gln Thr His
20 25

<210> 3778
<211> 38
<212> PRT
<213> Homo sapiens

<400> 3778
Met Glu Thr Ser Tyr Ile Thr Leu Leu Cys Val Phe Thr His Val Gly
1 5 10 15

Phe Ala Val Leu Ala Leu Thr Ala His Gly Ser Ala Gly His Thr Pro
20 25 30

Thr His Thr Asn Cys His
35

<210> 3779
<211> 39
<212> PRT
<213> Homo sapiens

<400> 3779
Met Trp Ile Met Gly Leu Leu Tyr Ile Leu Val Phe Tyr Asn Phe Lys
1 5 10 15

Ile Ser Ile Asn Ser Gln Lys Trp Glu Arg Lys Arg Gln Gln Asp Phe
20 25 30

Gly Ser Trp Arg Gln Ile Tyr
35

<210> 3780
<211> 32
<212> PRT
<213> Homo sapiens

<400> 3780
Met Gly Ala Gly Cys Val Ala Val Leu Leu Leu Gly Gln Ala Ala Gly
1 5 10 15

Glu Thr Val Phe Pro Trp Pro Cys Pro Val Gly Pro Ser Met Met Ser
20 25 30

<210> 3781
<211> 25
<212> PRT
<213> Homo sapiens

<400> 3781
Met Leu Phe Phe Leu Cys Phe Cys Phe Leu Gln Leu Phe His Val Tyr
1 5 10 15

Lys Ala Asn Pro Phe Cys Ser Ala His
20 25

<210> 3782
<211> 45
<212> PRT
<213> Homo sapiens

<400> 3782
Met Asp Ser Ile Leu Ile Phe Lys Trp Gln Lys Leu Gly Trp Gly Ala
1 5 10 15

Phe Lys Thr Cys Phe Leu Asn Cys Val Leu Thr Tyr Thr Ile Trp Cys
20 25 30

Phe Ile Cys Leu Phe Phe Leu Thr Met Ser Arg Arg Pro
35 40 45

<210> 3783
<211> 42
<212> PRT
<213> Homo sapiens

<400> 3783
Met Gln Lys Phe Val Val Ile Met Tyr Leu Cys Leu Val Thr Ile Met
1 5 10 15

Phe Tyr Arg Pro Thr Leu Val Pro Gly His Tyr Cys Lys Met Leu Lys
20 25 30

Ser Gln Glu Asn Phe Thr Glu Leu Lys Lys
35 40

<210> 3784
<211> 29
<212> PRT
<213> Homo sapiens

<400> 3784
Met Val Ile His Tyr Phe Leu Leu Phe Leu Val Lys Ser Trp Cys Val
1 5 10 15

Met Glu Ser Thr Cys Ser Met Cys Val Cys Leu Cys Val
20 25

<210> 3785
<211> 40
<212> PRT
<213> Homo sapiens

<400> 3785
Met Leu Ala Val Phe Leu Arg Ile Lys Leu Arg Leu Ala Gly Thr Val
1 5 10 15

Lys Pro Lys Phe Leu Phe Val Ser Phe Leu Ala Pro Leu Ile Phe Leu
20 25 30

Asp Phe Glu Lys Phe Thr Val Trp
35 40

<210> 3786
<211> 102
<212> PRT
<213> Homo sapiens

<400> 3786
Met Gly Leu Arg Asn Ile Leu Lys Val Cys Cys Thr His Asp Ile Thr
1 5 10 15

Thr Ile Ser Ile Pro Leu Leu Leu Val His Asp Met Ser Glu Glu Met
20 25 30

Thr Ile Pro Trp Cys Leu Arg Arg Ala Glu Leu Val Phe Lys Cys Val
35 40 45

Lys Gly Phe Met Met Glu Met Ala Ser Trp Asp Gly Gly Ile Ser Arg
50 55 60

Thr Val Gln Phe Leu Val Pro Gln Ser Ile Ser Glu Glu Met Phe Tyr
65 70 75 80

Gln Leu Ser Asn Met Leu Pro Gln Ile Phe Arg Val Ser Ser Thr Leu
85 90 95

Thr Leu Thr Ser Lys His
100

<210> 3787
<211> 102
<212> PRT
<213> Homo sapiens

<400> 3787
Met Gly Leu Arg Asn Ile Leu Lys Val Cys Cys Thr His Asp Ile Thr
1 5 10 15

Thr Ile Ser Ile Pro Leu Leu Leu Val His Asp Met Ser Glu Glu Met
20 25 30

Thr Ile Pro Trp Cys Leu Arg Arg Ala Glu Leu Val Phe Lys Cys Val
35 40 45

Lys Gly Phe Met Met Glu Met Ala Ser Trp Asp Gly Gly Ile Ser Arg
50 55 60

Thr Val Gln Phe Leu Val Pro Gln Ser Ile Ser Glu Glu Met Phe Tyr
65 70 75 80

Gln Leu Ser Asn Met Leu Pro Gln Ile Phe Arg Val Ser Ser Thr Leu
85 90 95

Thr Leu Thr Ser Lys His
100

<210> 3788
<211> 14
<212> PRT
<213> Homo sapiens

<400> 3788
Met Val Pro Ser Glu Ala Cys Pro Leu Val Cys Thr Leu Val
1 5 10

<210> 3789
<211> 57
<212> PRT
<213> Homo sapiens

<400> 3789
Met Trp Arg Arg Asp Gln Ser Leu Leu Leu Val Ser Leu Gln Leu Pro
1 5 10 15

Phe Ser Pro Val Ser Gly Thr Pro Arg Phe Met Pro Ala Val Gln Pro
20 25 30

Cys Gln Pro His Arg Leu Asn Thr Pro Ser Asn Ser Cys Ser Val Phe
35 40 45

Leu Gly Gly Gly Ala Pro Arg Gly Asn
50 55

<210> 3790
<211> 122
<212> PRT
<213> Homo sapiens

<400> 3790
Val Ala Glu Tyr Arg Glu Trp Gly Arg Ala Arg Ala Gly Gly Arg Asp
1 5 10 15

Gln Gly Leu Asp Pro Leu Ser Ser Phe Ser Leu Gly Arg Thr Gly Gln
20 25 30

Leu Pro Pro Thr Leu Thr Pro Leu Leu Pro Val Asn Gly Ala Val Arg
35 40 45

Glu Glu Ser Ile His Cys Lys Ser Val Glu Glu Ile Ser Thr Leu Val
50 55 60

Gln Lys Leu Ala Asp Gln Ser Gly Leu Asp Val Ile Arg Ile Arg Lys
65 70 75 80

Pro Phe His Thr Asp Asn Pro Ser Ile Gln Gly Gln Trp His Pro Phe
85 90 95

Thr Asn Lys Pro Thr Thr Phe Arg Gly Leu Arg Pro Arg Glu Val Gln
100 105 110

Asp Pro Ala Pro Ala Gln Val Gln Ala Gln
115 120

<210> 3791
<211> 65
<212> PRT
<213> Homo sapiens

<400> 3791
Met Leu Ser Leu Leu Ser Leu Cys Leu Leu Asn Pro Gln Ala Pro Val
1 5 10 15

Leu Pro Asp Ser Gly Thr Cys Thr Leu Pro Leu Gln Ser Gly Val Leu
20 25 30

Arg Ala Leu Arg Thr Met Lys His Ala Trp Cys Ile Phe Leu Ser Val
35 40 45

Asn Phe Pro His Trp Leu Leu Phe Asn Pro Leu His Phe Tyr Ser Lys
50 55 60

Ser
65

<210> 3792
<211> 40
<212> PRT
<213> Homo sapiens

<400> 3792
Met Gly Thr Asp Ala Leu Ser Phe Leu Leu Trp Gly Phe Pro Phe Leu
1 5 10 15

Trp Ser Pro Cys Ser Pro Cys Pro Pro Ser Gly Ala Ala Gly Leu Lys
20 25 30

Gly Gly Thr Arg Gly Gly Arg Val
35 40

<210> 3793
<211> 55
<212> PRT
<213> Homo sapiens

<400> 3793
Met Pro Val Thr Trp Phe Leu Ala Trp Ser Ala Phe Phe Gln Val Cys
1 5 10 15

Leu Gly Pro Ser Pro Ala Arg Gly Tyr Ser Thr Leu Gln Ala Arg Tyr
20 25 30

Ala Phe Phe Gln Pro Leu Gly Cys Gly His Cys Ile Gln Val Gly Thr
35 40 45

Ser Phe Pro Ser Leu Pro Phe
50 55

<210> 3794
<211> 30
<212> PRT
<213> Homo sapiens

<400> 3794
Met Ala Met Trp Val Val Ala Val Ile Ala Ser Ser Ala Thr Leu Gly
1 5 10 15

Leu Ala Lys Ile Thr His Asp Leu Gln Ser Thr Leu Gln Leu

20 25 30

<210> 3795
<211> 38
<212> PRT
<213> Homo sapiens

<400> 3795
Met Leu Phe Phe Pro His Ser Pro Leu Asn Ile Val Leu Tyr Ala Leu
1 5 10 15

Leu Asn Thr Phe Ser Phe Val Ser Gln Ala Ser Leu Trp Met Thr Pro
20 25 30

Lys Tyr Asn Phe Phe His
35

<210> 3796
<211> 46
<212> PRT
<213> Homo sapiens

<400> 3796
Ala Asp Gly Pro Cys Phe Gly Pro Ala Leu Phe Leu Thr Leu Ala Leu
1 5 10 15

Thr Trp Glu Gly Leu Glu Gly Pro Ser His His Pro Arg Ser Pro Ser
20 25 30

Ala Val Pro Phe Pro Cys Arg Leu Ala Ala Ala Ser Pro Ala
35 40 45

<210> 3797
<211> 31
<212> PRT
<213> Homo sapiens

<400> 3797
Met Cys Val Cys Val Cys Val Cys Val Cys Val Cys Val His Arg Val
1 5 10 15

Leu Pro Cys Val Val Phe Phe Trp Arg Leu Ser Leu Trp Ser Arg
20 25 30

<210> 3798
<211> 32
<212> PRT
<213> Homo sapiens

<400> 3798
Met Arg Leu Ser Thr Trp Leu Thr Phe Asn Met Cys Ile Phe Thr Leu
1 5 10 15

Cys Ile Phe Leu Thr Gly Leu Ser Arg Leu Asp Cys Ile His His Ile
20 25 30

<210> 3799
<211> 17
<212> PRT
<213> Homo sapiens

<400> 3799
Ala Ser Gln Thr Phe Ser Thr Glu Leu Trp Cys Phe Gly Leu Trp His
1 5 10 15

Thr

<210> 3800
<211> 33
<212> PRT
<213> Homo sapiens

<400> 3800
Met Lys Asp Arg Lys Gln Trp Ala Phe Lys Thr Arg Trp Pro Phe Phe
1 5 10 15

His Phe Leu Met Leu Ser Leu Ala Leu Asp Cys Tyr Arg Phe Leu Thr
20 25 30

Ser

<210> 3801
<211> 30
<212> PRT
<213> Homo sapiens

<400> 3801
Met Ala Ile Leu Leu Thr Phe Leu Val Tyr Val Ile Ile Thr Ser Ile
1 5 10 15

Gly Lys Gln Leu His Lys Lys Asn Leu Tyr Ile Phe Asn Phe
20 25 30

<210> 3802
<211> 15
<212> PRT
<213> Homo sapiens

<400> 3802
Met Arg Phe Leu Trp Cys Gln Pro Val Ala Ser Val Trp Gly Ser
1 5 10 15

<210> 3803
<211> 294
<212> PRT
<213> Homo sapiens

<400> 3803

```
Met Met Val Gln Met Ile Ser Asp Ala Asn Thr Ala Gly Asn Gly Phe
  1               5                  10                  15

Met Ala Met Phe Ser Ala Ala Glu Pro Asn Glu Arg Gly Asp Gln Tyr
             20                  25                  30

Cys Gly Gly Leu Leu Asp Arg Pro Ser Gly Ser Phe Lys Thr Pro Asn
         35                  40                  45

Trp Pro Asp Arg Asp Tyr Pro Ala Gly Val Thr Cys Val Trp His Ile
     50                  55                  60

Val Ala Pro Lys Asn Gln Leu Ile Glu Leu Lys Phe Glu Lys Phe Asp
 65                  70                  75                  80

Val Glu Arg Asp Asn Tyr Cys Arg Tyr Asp Tyr Val Ala Val Phe Asn
                 85                  90                  95

Gly Gly Glu Val Asn Asp Ala Arg Arg Ile Gly Lys Tyr Cys Gly Asp
            100                 105                 110

Ser Pro Pro Ala Pro Ile Val Ser Glu Arg Asn Glu Leu Leu Ile Gln
        115                 120                 125

Phe Leu Ser Asp Leu Ser Leu Thr Ala Asp Gly Phe Ile Gly His Tyr
    130                 135                 140

Ile Phe Arg Pro Lys Lys Leu Pro Thr Thr Thr Glu Gln Pro Val Thr
145                 150                 155                 160

Thr Thr Phe Pro Val Thr Thr Gly Leu Lys Pro Thr Val Ala Leu Cys
                165                 170                 175

Gln Gln Lys Cys Arg Arg Thr Gly Thr Leu Glu Gly Asn Tyr Cys Ser
            180                 185                 190

Ser Asp Phe Val Leu Ala Gly Thr Val Ile Thr Thr Ile Thr Arg Asp
        195                 200                 205

Gly Ser Leu His Ala Thr Val Ser Ile Ile Asn Ile Tyr Lys Glu Gly
    210                 215                 220

Asn Leu Ala Ile Gln Gln Ala Gly Lys Asn Met Ser Ala Arg Leu Thr
225                 230                 235                 240

Val Val Cys Lys Gln Cys Pro Leu Leu Arg Arg Gly Leu Asn Tyr Ile
                245                 250                 255

Ile Met Gly Gln Val Gly Glu Asp Gly Arg Gly Lys Ile Met Pro Asn
            260                 265                 270

Ser Phe Ile Met Met Phe Lys Thr Lys Asn Gln Lys Leu Leu Asp Ala
```

275 280 285

Leu Lys Asn Lys Gln Cys
290

<210> 3804
<211> 40
<212> PRT
<213> Homo sapiens

<400> 3804
Met Phe Val Pro Tyr Leu Trp Val Phe Arg Ser Leu Ser Leu Ser Leu
1 5 10 15

Phe Leu Phe Leu Ser Val Phe Ser Ile Ser His Leu His Leu Gly Ser
20 25 30

Ile Leu Cys Ser Leu Ser Gln Asp
35 40

<210> 3805
<211> 32
<212> PRT
<213> Homo sapiens

<400> 3805
Met Ser Ile Lys Arg Gln Ser Val Leu Ala Thr Leu Ser Leu Gln Ile
1 5 10 15

Val Ala Phe Pro Leu Gln Gln Gly Pro Arg Gly Asp Thr Gly Asn Leu
20 25 30

<210> 3806
<211> 31
<212> PRT
<213> Homo sapiens

<400> 3806
Met Gln Met Leu Arg Lys Leu Phe Thr Ala Ile Arg Ala Leu Phe Leu
1 5 10 15

Ala Val Cys Val Leu Lys Val Ile Val Ser Leu Val Pro Trp Glu
20 25 30

<210> 3807
<211> 37
<212> PRT
<213> Homo sapiens

<400> 3807

Met Leu Thr His Ile Ser Phe Ala Ser Phe Ile Arg Leu Val Leu Thr
1 5 10 15

Leu Gly Gly Asp Ile Tyr Ser Gln Met Arg Ser Arg His Lys Val Lys
20 25 30

Asn Gly Thr Ile Tyr
35

<210> 3808
<211> 33
<212> PRT
<213> Homo sapiens

<400> 3808
Met Thr Ser Ala Phe Leu Phe Leu Phe Leu Asp Ser Val Leu Phe Thr
1 5 10 15

Trp Ala Cys Val Trp Leu Gly Asp Arg Gln Glu Cys Gln Lys Ala Gly
20 25 30

Arg

<210> 3809
<211> 26
<212> PRT
<213> Homo sapiens

<400> 3809
Val Asn Tyr Leu Phe Lys Ile Leu Thr Val His Tyr Val Pro Thr Met
1 5 10 15

Lys Pro Leu Ser Pro Lys Thr Gln Thr Asp
20 25

<210> 3810
<211> 21
<212> PRT
<213> Homo sapiens

<400> 3810
Met Ile Arg Thr Pro Asn Gln Ile Gln Lys Pro Val Leu Leu Tyr Leu
1 5 10 15

Leu His Trp Pro Ser
20

<210> 3811
<211> 55
<212> PRT
<213> Homo sapiens

<400> 3811
Met Asp Leu Leu Phe Leu Asp Met Gly Leu Ser Ala Trp Gln Met Trp
1 5 10 15

Lys Leu Lys Phe Leu Val Pro Leu Gln Val Leu Ala Ser Gln Pro Cys
20 25 30

Arg Lys Val Val Tyr Arg Pro Phe Ile Leu Lys Leu Ile Thr Cys Pro
35 40 45

Trp Trp Thr Phe Leu Trp Trp
50 55

<210> 3812
<211> 12
<212> PRT
<213> Homo sapiens

<400> 3812
Asp Ser Thr Leu Leu Ile Phe Leu Ile Ile Thr Leu
1 5 10

<210> 3813
<211> 25
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3813
Leu Asn Thr Ser Asp Phe Xaa Phe Val Tyr Cys Phe Ser Leu Ser Phe
1 5 10 15

Ser Ser Leu Ser Lys Gln Leu Leu Asp
20 25

<210> 3814
<211> 37
<212> PRT
<213> Homo sapiens

<400> 3814
Met Asn Lys Gln Lys Arg Lys Gln Gly Thr Cys Val Ser Leu Ser Leu
1 5 10 15

Leu Phe Cys Leu Ser Leu Cys Pro Leu Ser Tyr Val Ser His Ala Val
20 25 30

Ser Cys Pro Cys Phe
35

<210> 3815
<211> 23
<212> PRT
<213> Homo sapiens

<400> 3815
Met Leu Leu Cys Ile Leu Ile Val Cys Ile Tyr Ser Ala Tyr Val Ala
1 5 10 15

Cys Leu Gln Asn Tyr Ile Lys
20

<210> 3816
<211> 18
<212> PRT
<213> Homo sapiens

<400> 3816
Met Pro Phe Arg Trp Ala Ala Ser Leu Ala Thr Trp Phe Gln Gly Ala
1 5 10 15

Val Leu

<210> 3817
<211> 383
<212> PRT
<213> Homo sapiens

<400> 3817
Leu Leu Leu Tyr Ala Pro Val Gly Phe Cys Leu Leu Val Leu Arg Leu
1 5 10 15

Phe Leu Gly Ile His Val Phe Leu Val Ser Cys Ala Leu Pro Asp Ser
20 25 30

Val Leu Arg Arg Phe Val Val Arg Thr Met Cys Ala Val Leu Gly Leu
35 40 45

Val Ala Arg Gln Glu Asp Ser Gly Leu Arg Asp His Ser Val Arg Val
50 55 60

Leu Ile Ser Asn His Val Thr Pro Phe Asp His Asn Ile Val Asn Leu
65 70 75 80

Leu Thr Thr Cys Ser Thr Pro Leu Leu Asn Ser Pro Pro Ser Phe Val
85 90 95

Cys Trp Ser Arg Gly Phe Met Glu Met Asn Gly Arg Gly Glu Leu Val
100 105 110

Glu Ser Leu Lys Arg Phe Cys Ala Ser Thr Arg Leu Pro Pro Thr Pro
115 120 125

Leu Leu Leu Phe Pro Glu Glu Glu Ala Thr Asn Gly Arg Glu Gly Leu
130 135 140

```
Leu Arg Phe Ser Ser Trp Pro Phe Ser Ile Gln Asp Val Val Gln Pro
145                 150                 155                 160

Leu Thr Leu Gln Val Gln Arg Pro Leu Val Ser Val Thr Val Ser Asp
                165                 170                 175

Ala Ser Trp Val Ser Glu Leu Leu Trp Ser Leu Phe Val Pro Phe Thr
            180                 185                 190

Val Tyr Gln Val Arg Trp Leu Arg Pro Val His Arg Gln Leu Gly Glu
        195                 200                 205

Ala Asn Glu Glu Phe Ala Leu Arg Val Gln Gln Leu Val Ala Lys Glu
    210                 215                 220

Leu Gly Gln Thr Gly Thr Arg Leu Thr Pro Ala Asp Lys Ala Glu His
225                 230                 235                 240

Met Lys Arg Gln Arg His Pro Arg Leu Arg Pro Gln Ser Ala Gln Ser
                245                 250                 255

Ser Phe Pro Pro Ser Pro Gly Pro Ser Pro Asp Val Gln Leu Ala Thr
            260                 265                 270

Leu Ala Gln Arg Val Lys Glu Val Leu Pro His Val Pro Leu Gly Val
        275                 280                 285

Ile Gln Arg Asp Leu Ala Lys Thr Gly Cys Val Asp Leu Thr Ile Thr
    290                 295                 300

Asn Leu Leu Glu Gly Ala Val Ala Phe Met Pro Glu Asp Ile Thr Lys
305                 310                 315                 320

Gly Thr Gln Ser Leu Pro Thr Ala Ser Ala Ser Lys Phe Pro Ser Ser
                325                 330                 335

Gly Pro Val Thr Pro Gln Pro Thr Ala Leu Thr Phe Ala Lys Ser Ser
            340                 345                 350

Trp Ala Arg Gln Glu Ser Leu Gln Glu Arg Lys Gln Ala Leu Tyr Glu
        355                 360                 365

Tyr Ala Arg Arg Arg Phe Thr Glu Arg Arg Ala Gln Glu Ala Asp
    370                 375                 380
```

PCT/US2005/046354

<210> 3818
<211> 44
<212> PRT
<213> Homo sapiens

<400> 3818

```
Lys Ala Leu Tyr Thr Trp Leu Pro Ser Val Leu Pro Leu Ala Leu Ser
  1               5                  10                  15

Met Arg Ser Gln Ala Leu Gly Arg Leu Cys Asn His Pro Pro Asn Leu
             20                  25                  30

Val His Phe Pro Gln Val Ala Phe Leu Asn Ser Pro
```

35 40

<210> 3819
<211> 37
<212> PRT
<213> Homo sapiens

<400> 3819
Lys Thr Ile Thr His Val Leu Gln Leu Leu Val Leu Leu Pro Ala His
1 5 10 15

Ser Trp Tyr Leu Ser Ile Ile Val Val Ala Ser Glu Lys Asn Ser Lys
20 25 30

Lys Lys Glu Tyr Thr
35

<210> 3820
<211> 29
<212> PRT
<213> Homo sapiens

<400> 3820
Met Ser Thr Phe Tyr Ile Phe Ile Phe Met Asn Asn Thr Val Arg Lys
1 5 10 15

Gly Ser Asn Ala Ser Cys Asn Tyr Trp Tyr Ile Lys Val
20 25

<210> 3821
<211> 123
<212> PRT
<213> Homo sapiens

<400> 3821
Tyr Trp Ala Leu Leu Arg Thr Leu Leu Ala Leu Ala Ala Phe Ser Thr
1 5 10 15

Ala Ile Ala Ala Leu Lys Leu Trp Asn Glu Asp Phe Arg Tyr Gly Tyr
20 25 30

Ser Tyr Tyr Asn Ser Ala Cys Arg Ile Ser Ser Ser Ser Asp Trp Asn
35 40 45

Thr Pro Ala Pro Thr Gln Ser Pro Glu Glu Val Arg Arg Leu His Leu
50 55 60

Cys Thr Ser Phe Met Asp Met Leu Lys Ala Leu Phe Arg Thr Leu Gln
65 70 75 80

Ala Met Leu Leu Gly Val Trp Ile Leu Leu Leu Leu Ala Ser Leu Ala
85 90 95

Pro Leu Trp Leu Tyr Cys Trp Arg Met Phe Pro Thr Lys Gly Lys Arg
100 105 110

Asp Gln Lys Glu Met Leu Glu Val Ser Gly Ile
115 120

<210> 3822
<211> 40
<212> PRT
<213> Homo sapiens

<400> 3822
Met Cys Ser His Pro Leu Ala Ser Arg Ala Leu Phe Pro Gly Ile Leu
1 5 10 15

Val Lys Val Val Ser Cys Ile Pro Leu Pro Phe Tyr Leu Gly Phe Asp
20 25 30

Ile Gly Lys Val Tyr Leu Lys Thr
35 40

<210> 3823
<211> 74
<212> PRT
<213> Homo sapiens

<400> 3823
Met Phe Met Lys Val Ser Arg Pro His Pro Ser Asp Tyr Pro Leu Leu
1 5 10 15

Ile Leu Phe Val Val Gly Gly Val Thr Val Ser Glu Val Lys Met Val
20 25 30

Lys Asp Leu Val Ala Ser Leu Lys Pro Gly Thr Gln Val Ile Val Leu
35 40 45

Ser Thr Arg Leu Leu Lys Pro Leu Asn Ile Pro Glu Leu Leu Phe Ala
50 55 60

Thr Asp Arg Leu His Pro Asp Leu Gly Phe
65 70

<210> 3824
<211> 43
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3824
Met Ser His His Ala Trp Leu Ser Val Leu Phe Ser Val Ser Val Pro
1 5 10 15

Ser Val Ser Ser Ala Tyr Met Phe Ser Ile Leu Ser Cys Ser Phe Ser

20 25 30

Ser Val Pro Thr Arg Tyr Phe Trp Xaa Lys Asn
35 40

<210> 3825
<211> 67
<212> PRT
<213> Homo sapiens

<400> 3825
Met Thr Lys Val Pro Ser Cys Phe Leu Leu Pro Val Leu Leu Leu Gly
1 5 10 15

Arg Lys Arg Gly Leu Met Arg Leu His Ser Gly Ala His Ile Thr Arg
20 25 30

Cys Ile Cys Arg His Arg Ala Gly Cys Leu Gln Pro Gly Glu Gly Gln
35 40 45

Arg Glu Gly Val Tyr Glu Cys Glu Cys Val Cys Met Glu Val Gly Ala
50 55 60

Leu Gly Val
65

<210> 3826
<211> 67
<212> PRT
<213> Homo sapiens

<400> 3826
Met Thr Lys Val Pro Ser Cys Phe Leu Leu Pro Val Leu Leu Leu Gly
1 5 10 15

Arg Lys Arg Gly Leu Met Arg Leu His Ser Gly Ala His Ile Thr Arg
20 25 30

Cys Ile Cys Arg His Arg Ala Gly Cys Leu Gln Pro Gly Glu Gly Gln
35 40 45

Arg Glu Gly Val Tyr Glu Cys Glu Cys Val Cys Met Glu Val Gly Ala
50 55 60

Leu Gly Val
65

<210> 3827
<211> 129
<212> PRT
<213> Homo sapiens

<400> 3827
Met Glu Ser Cys Ala Phe Lys Ala Ala Leu Ala Cys Val Gly Gly Phe
1 5 10 15

```
Val Leu Gly Gly Ala Phe Gly Val Phe Thr Ala Gly Ile Asp Thr Asn
             20                  25                  30

Val Gly Phe Asp Pro Lys Asp Pro Tyr Arg Thr Pro Thr Ala Lys Glu
         35                  40                  45

Val Leu Lys Asp Met Gly Gln Arg Gly Met Ser Tyr Ala Lys Asn Phe
     50                  55                  60

Ala Ile Val Gly Ala Met Phe Ser Cys Thr Glu Cys Leu Ile Glu Ser
 65                  70                  75                  80

Tyr Arg Gly Thr Ser Asp Trp Lys Asn Ser Val Ile Ser Gly Cys Ile
                 85                  90                  95

Thr Gly Gly Ala Ile Gly Phe Arg Ala Gly Leu Lys Ala Gly Ala Ile
            100                 105                 110

Gly Cys Gly Gly Phe Ala Ala Phe Ser Ala Ala Ile Asp Tyr Tyr Leu
        115                 120                 125

Arg
```

WO 2004/092353 PCT/US2004/011275

<210> 3828
<211> 36
<212> PRT
<213> Homo sapiens

<400> 3828
```
Met His Asn Thr Phe Phe Asn Thr Ile Leu Ile Thr Lys His Leu Ile
  1               5                  10                  15

Tyr Cys Tyr Phe Val Cys Phe Leu Asn Cys Ile Phe Cys Gln Cys Gly
             20                  25                  30

Ile Ser Cys Leu
         35
```

<210> 3829
<211> 31
<212> PRT
<213> Homo sapiens

<400> 3829
```
Met Lys Ser Gln Ser Ser Leu Ser Val Gly Ile Leu Arg Val Thr Leu
  1               5                  10                  15

Cys Leu Val Pro Ser Cys Val Pro Ala Ile Asp Cys Asn Ala Gln
             20                  25                  30
```

<210> 3830
<211> 46
<212> PRT

<213> Homo sapiens

<400> 3830
Met Leu Val Leu Ser Glu Gln Trp Glu Leu Val Trp Asp Leu Leu Leu
1 5 10 15

Gln Leu Pro Trp Trp Leu Lys Ile Glu Ala Leu Gly Asn Gly Ser Ser
20 25 30

Val Trp Lys Glu Thr Val His Leu Gly Phe Leu Ala Trp Arg
35 40 45

<210> 3831
<211> 55
<212> PRT
<213> Homo sapiens

<400> 3831
Met Arg Gln Gln Arg Trp Pro Arg Ser Ile Leu Leu Leu Cys Gly Glu
1 5 10 15

Leu Cys Phe Ser Leu Val Thr Ile Gly Lys Gly Ser Cys Ser Tyr Val
20 25 30

Ser Leu Pro Val Pro Gln Ser Phe Val His Gly Val Gly His His Leu
35 40 45

Leu Pro Ile Gln Gly Asn Asp
50 55

<210> 3832
<211> 51
<212> PRT
<213> Homo sapiens

<400> 3832
Met Pro Arg Ala Trp Trp Pro Ser Tyr Thr Cys Ser Leu Leu Cys Leu
1 5 10 15

Ser Ile Ser Val His Gln Phe Asp Ser Gln Thr Met Phe Pro Ser Lys
20 25 30

Trp Leu Trp Ser Arg Asn Glu Lys Glu Ser Ser Ser Leu Gly Lys Ser
35 40 45

Lys Arg Lys
50

<210> 3833
<211> 51
<212> PRT
<213> Homo sapiens

<400> 3833
Met Asn Pro Phe Ile Phe Asn Val Ile Thr Asp Thr Val Gln Phe Lys

```
  1               5                  10                  15

Ser Ser Ile Leu Leu Leu Thr Phe Ala Ser Ile Phe Leu Ser Ser Phe
             20                  25                  30

Pro Ala Phe Ser Tyr Phe Asn Gln Ile Val Leu Thr Ile Ser Leu His
         35                  40                  45

His Val Phe
     50
```

```
<210> 3834
<211> 44
<212> PRT
<213> Homo sapiens

<400> 3834
Met Arg Gln Asn Phe Val Ala Gln Phe Val Gln Leu Leu Lys Cys Trp
  1               5                  10                  15

Leu Cys Asp Val Trp Ser Gly Val Val Val Glu Lys Asn Trp Ala Pro
             20                  25                  30

Ser Val Asp Gln Cys Gln Leu Gln Val Leu Gln Phe
         35                  40
```

```
<210> 3835
<211> 45
<212> PRT
<213> Homo sapiens

<400> 3835
Met Ser Leu Leu Val Met Ser Leu Cys Tyr Phe Leu Gly Glu Leu Phe
  1               5                  10                  15

Glu Leu Ser Ala Phe Asn Leu Pro Phe Val His Arg Ala Arg Pro Pro
             20                  25                  30

Val Thr Thr Val Glu Ala Gly Gly Glu Leu Leu Tyr Pro
         35                  40                  45
```

```
<210> 3836
<211> 40
<212> PRT
<213> Homo sapiens

<400> 3836
Met Cys Leu His Leu Leu Leu Ala Ile Ser Gly Ile Leu Asn Leu His
  1               5                  10                  15

Cys His Leu Val Leu Cys Ser Cys Gly Arg Tyr Thr Gln Lys Thr Gln
             20                  25                  30

Ala Asn Thr Thr Trp Val Thr Ser
         35                  40
```

<210> 3837
<211> 40
<212> PRT
<213> Homo sapiens

<400> 3837
Met Cys Leu His Leu Leu Leu Ala Ile Ser Gly Ile Leu Asn Leu His
1 5 10 15

Cys His Leu Val Leu Cys Ser Cys Gly Arg Tyr Thr Gln Lys Thr Gln
20 25 30

Ala Asn Thr Thr Trp Val Thr Ser
35 40

<210> 3838
<211> 343
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (184)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (198)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (210)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (300)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (307)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3838
Met Tyr Ile Ser Pro Glu Glu Phe Lys Pro Ile Ala Glu Lys Leu Thr
1 5 10 15

Gly Ser Thr Pro Ala Ala Ser Tyr Glu Glu Glu Glu Leu Pro Pro Asp
20 25 30

Pro Ser Glu Glu Thr Leu Thr Ile Glu Ala Arg Phe Gln Pro Leu Leu
35 40 45

Pro Glu Thr Met Thr Lys Ser Lys Asp Gly Phe Leu Gly Val Ser Arg

EP1394255A2

```
     50                  55                  60

Leu Ala Leu Ser Gly Leu Arg Asn Trp Thr Ala Ala Ala Ser Pro Ser
 65                  70                  75                  80

Ala Val Phe Ala Thr Arg His Phe Gln Pro Phe Leu Pro Pro Pro Gly
                 85                  90                  95

Gln Glu Leu Gly Glu Pro Trp Trp Ile Ile Pro Ser Glu Leu Ser Met
            100                 105                 110

Phe Thr Gly Tyr Leu Ser Asn Asn Arg Phe Tyr Pro Pro Pro Pro Lys
        115                 120                 125

Gly Lys Glu Val Ile Ile His Arg Leu Leu Ser Met Phe His Pro Arg
    130                 135                 140

Pro Phe Val Lys Thr Arg Phe Ala Pro Gln Gly Ala Val Ala Cys Leu
145                 150                 155                 160

Thr Ala Ile Ser Asp Phe Tyr Tyr Thr Val Met Phe Arg Ile His Ala
                165                 170                 175

Glu Phe Gln Leu Ser Glu Pro Xaa Asp Phe Pro Phe Trp Phe Ser Pro
            180                 185                 190

Ala Gln Phe Thr Gly Xaa Ile Ile Leu Ser Lys Asp Ala Thr His Val
        195                 200                 205

Arg Xaa Phe Arg Leu Phe Val Pro Asn His Arg Ser Leu Asn Val Asp
    210                 215                 220

Met Glu Trp Leu Tyr Gly Ala Ser Glu Ser Ser Asn Met Glu Val Asp
225                 230                 235                 240

Ile Gly Tyr Ile Pro Gln Met Glu Leu Glu Ala Thr Gly Pro Ser Val
                245                 250                 255

Pro Ser Val Ile Leu Asp Glu Asp Gly Ser Met Ile Asp Ser His Leu
            260                 265                 270

Pro Ser Gly Glu Pro Leu Gln Phe Val Phe Glu Glu Ile Lys Trp Ala
        275                 280                 285

Ala Gly Ala Glu Leu Gly Gly Gly Cys Pro Ala Xaa Gly Gly Gly His
    290                 295                 300

Val Pro Xaa Gln Glu Val Ser Tyr Leu Pro Phe Thr Glu Ala Phe Asp
305                 310                 315                 320

Arg Ala Lys Ala Glu Asn Lys Leu Val His Ser Ile Leu Leu Trp Gly
                325                 330                 335

Ala Leu Asp Asp Gln Ser Cys
            340
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<210> 3839
<211> 55
<212> PRT

<213> Homo sapiens

<400> 3839
Met Thr Phe Gly Glu Tyr Val Ala Leu Ile Phe Phe Thr Leu Ile Ile
1 5 10 15

Phe Leu Ser Ser Arg Gln Pro Ile Ala Pro Trp Arg Pro His Gln Pro
20 25 30

Cys Lys Phe Ser Pro Ala Ala Trp Arg Leu Gly Arg Gly Ala Ala Val
35 40 45

Thr Arg Arg Tyr Thr Arg Leu
50 55

<210> 3840
<211> 52
<212> PRT
<213> Homo sapiens

<400> 3840
Met Thr Leu His Val Ser Arg Leu Trp Cys Cys Cys Pro Lys Lys Gly
1 5 10 15

Gln Ala Trp Ser Ala Tyr Gly Ala Leu Leu Trp Cys Tyr Leu Ala Pro
20 25 30

Val Ser Leu Glu Ser Glu Glu Val Trp Pro Leu Lys Ile Lys Leu Pro
35 40 45

Pro Glu Leu Leu
50

<210> 3841
<211> 51
<212> PRT
<213> Homo sapiens

<400> 3841
Met Tyr Phe Pro Cys Arg Trp Leu Leu Pro Ser Val Leu Gly Tyr Leu
1 5 10 15

Ala Met Glu Leu Leu Arg Gln Ser Leu Pro Arg Trp Arg Ser Ser Gln
20 25 30

Cys Leu His Leu Pro Ile Arg Asn Thr Arg Cys Leu Pro Trp Cys Lys
35 40 45

Val Pro Arg
50

<210> 3842
<211> 16
<212> PRT
<213> Homo sapiens

<400> 3842
Met Leu Leu Gly Asn Leu Ile Ala Thr Met Gln Ala Thr Gly Asn Leu
1 5 10 15

<210> 3843
<211> 48
<212> PRT
<213> Homo sapiens

<400> 3843
Met Phe Trp Glu Val Leu Phe Ile Val Cys Phe Pro Thr Phe Ala Leu
1 5 10 15

Ile Thr Arg Leu Ser Ser Leu Ile Ile Glu Thr Met Ser Leu Tyr Leu
20 25 30

Val Pro Ser Ile Val Pro Ser Thr Gln Cys Met His Ser Leu Leu Val
35 40 45

<210> 3844
<211> 10
<212> PRT
<213> Homo sapiens

<400> 3844
Met Arg Leu Phe Val Leu Leu Leu Met Thr
1 5 10

<210> 3845
<211> 1
<212> PRT
<213> Homo sapiens

<400> 3845
Ile
1

<210> 3846
<211> 32
<212> PRT
<213> Homo sapiens

<400> 3846
Met Gly Gly Ile Gln Tyr Cys Met Trp Gly His Pro Gly Trp Gly Gly
1 5 10 15

Asp Ala Trp His Pro Ser Leu His Ser Pro Ala Arg Pro Gly Gly Val
20 25 30

<210> 3847
<211> 21
<212> PRT
<213> Homo sapiens

<400> 3847
Met Val Ile Ile Glu Met Leu Leu Lys Ile Leu Trp Val Val Phe Trp
1 5 10 15

Ala Gly Tyr Pro Cys
20

<210> 3848
<211> 7
<212> PRT
<213> Homo sapiens

<400> 3848
Asp Val His Met Arg Ser Arg
1 5

<210> 3849
<211> 38
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3849
Met Arg Ser Pro Leu Ser Ala Ser Ala Leu Leu Leu Trp Xaa Ser Ser
1 5 10 15

Val Ala Arg Ala Phe Ser Ser Pro Ser Leu Leu Met Ala Val Pro Ser
20 25 30

Pro Thr Cys Ser Arg Tyr
35

<210> 3850
<211> 38
<212> PRT
<213> Homo sapiens

<220>

<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3850
Met Arg Ser Pro Leu Ser Ala Ser Ala Leu Leu Leu Trp Xaa Ser Ser
1 5 10 15

Val Ala Arg Ala Phe Ser Ser Pro Ser Leu Leu Met Ala Val Pro Ser
20 25 30

Pro Xaa Cys Ser Arg Tyr
35

<210> 3851
<211> 38
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3851
Met Arg Ser Pro Leu Ser Ala Ser Ala Leu Leu Leu Trp Xaa Ser Ser
1 5 10 15

Val Ala Arg Ala Phe Ser Ser Pro Ser Leu Leu Met Ala Val Pro Ser
20 25 30

Pro Xaa Cys Ser Arg Tyr
35

<210> 3852
<211> 38
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3852
Met Arg Ser Pro Leu Ser Ala Ser Ala Leu Leu Leu Trp Xaa Ser Ser
1 5 10 15

Val Ala Arg Ala Phe Ser Ser Pro Ser Leu Leu Met Ala Val Pro Ser
20 25 30

Pro Xaa Cys Ser Arg Tyr
35

<210> 3853
<211> 41
<212> PRT
<213> Homo sapiens

<400> 3853
Ile Ser Ser Leu Val Gly Asn Leu Ala Thr Ile Gln Lys Phe Lys Ile
1 5 10 15

Tyr Cys Gln Pro Ser Arg Phe Trp Asn Thr Ser Pro Ser Ile Arg Thr
20 25 30

Gly Trp Arg Pro Val Asp Thr Pro Lys
35 40

<210> 3854
<211> 15
<212> PRT
<213> Homo sapiens

<400> 3854
Met Thr Ala Trp Tyr Ile Trp Val Thr Cys Val Gly Ser Leu Leu
1 5 10 15

<210> 3855
<211> 60
<212> PRT
<213> Homo sapiens

<400> 3855
Met Ala Val Leu Leu Leu Leu Ala Leu Leu Thr Ala Ala Leu Ile Leu
1 5 10 15

Tyr Arg Arg Arg Gln Ser Ile Glu Arg Gly Ala Phe Glu Gly Ala Arg
20 25 30

Tyr Ser Arg Ser Ser Ser Ser Pro Thr Glu Ala Thr Glu Lys Asn Ile
35 40 45

Leu Val Ser Asp Met Glu Met Asn Glu Gln Gln Glu
50 55 60

<210> 3856
<211> 61
<212> PRT
<213> Homo sapiens

<400> 3856
Met Asn Tyr Arg Cys Leu Thr Phe Lys Ile Tyr Phe Val Leu Leu Ile
1 5 10 15

Ser Ser His Cys Val Asn Thr Gly Ser Cys Arg Ser Leu Leu Gly Arg
20 25 30

Asn Lys Phe Ile Tyr Phe Leu Arg Gly Ser Ser Gly Val Leu Ile Arg
35 40 45

Pro Leu Leu Cys Leu Gly Gly Ala Leu Val Leu Leu Ala
50 55 60

<210> 3857
<211> 17
<212> PRT
<213> Homo sapiens

<400> 3857
Met Gly Phe Val Val Leu Leu Leu Cys Gln Val Pro Leu Gly Gln Leu
1 5 10 15

Gly

<210> 3858
<211> 146
<212> PRT
<213> Homo sapiens

<400> 3858
Met Val Val Trp Tyr Leu Phe Gln Ile Val Ser Ala Val Ser Cys Ile
1 5 10 15

His Lys Ala Gly Ile Leu His Arg Asp Ile Lys Thr Leu Asn Ile Phe
20 25 30

Leu Thr Lys Ala Asn Leu Ile Lys Leu Gly Asp Tyr Gly Leu Ala Lys
35 40 45

Lys Leu Asn Ser Glu Tyr Ser Met Ala Glu Thr Leu Val Gly Thr Pro
50 55 60

Tyr Tyr Met Ser Pro Glu Leu Cys Gln Gly Val Lys Tyr Asn Phe Lys
65 70 75 80

Ser Asp Ile Trp Ala Val Gly Cys Val Ile Phe Glu Leu Leu Thr Leu
85 90 95

Lys Arg Thr Phe Asp Ala Thr Asn Pro Leu Asn Leu Cys Val Lys Ile
100 105 110

Val Gln Gly Ile Arg Ala Met Glu Val Asp Ser Ser Gln Tyr Ser Leu
115 120 125

Glu Leu Ile Gln Met Val His Ser Cys Leu Asp Gln Val Gln Glu Pro
130 135 140

Leu Pro
145

<210> 3859
<211> 54
<212> PRT
<213> Homo sapiens

<400> 3859
Met Leu Ala Phe Ile Cys Ser Ile Ser Ser Leu Leu Gly Cys Phe Trp
1 5 10 15

Gly Ile Thr Cys Leu Ser Ser Lys Leu Glu Thr Ser Asn Ser Pro Gly
20 25 30

Asp Ala Val Ala Leu Phe Val Gly Gln Trp His Leu Leu Val Val Cys
35 40 45

Asn Val Tyr Ser Leu Val
50

<210> 3860
<211> 26
<212> PRT
<213> Homo sapiens

<400> 3860
Met Tyr Gln Tyr Tyr Ile Pro Leu His Cys Leu Ile Ile Ile Ile Ile
1 5 10 15

Ile Val His Cys Met Gly Ile Pro Arg Leu
20 25

<210> 3861
<211> 31
<212> PRT
<213> Homo sapiens

<400> 3861
Met Ala Arg Ala Ala Thr Gly Ala Gly Lys Ala Thr Trp Thr Leu Phe
1 5 10 15

Cys Trp Leu Met Ala Pro Arg Ala Cys Val His Lys Thr Ser Ser
20 25 30

<210> 3862

<211> 23
<212> PRT
<213> Homo sapiens

<400> 3862
Met Gly Leu Phe Leu Leu Phe Leu Leu Arg Val Gly Val Gly Cys Val
1 5 10 15

Ile Cys Lys Tyr Phe Cys Ala
20

<210> 3863
<211> 62
<212> PRT
<213> Homo sapiens

<400> 3863
Leu Glu Cys Trp Lys Asp Met Ile Arg Ala Ala Cys Ser Ser Gln Lys
1 5 10 15

Ser Val Ser Thr Ile Lys Trp Met Pro Asn His Gln Thr His Lys Cys
20 25 30

Ser Arg Cys Val Pro Gly Tyr Gly Ile Ser Arg Tyr Lys Lys Tyr Phe
35 40 45

Asn Tyr Ser Phe Val Ile Asn Ile Thr Tyr Glu Lys Lys Ile
50 55 60

<210> 3864
<211> 26
<212> PRT
<213> Homo sapiens

<400> 3864
Met Tyr Ile Leu Phe Leu Ser Ser Val Leu Ile Met Gly Ala Phe Leu
1 5 10 15

Lys Leu Ile Ser Tyr Phe Pro Ile Tyr Ile
20 25

<210> 3865
<211> 37
<212> PRT
<213> Homo sapiens

<400> 3865
Met Leu Leu Ala Tyr His Ile Phe Ile Ser Val Ser Ile Cys Arg Leu
1 5 10 15

Leu Gly Pro Gly Asn Asp Ser Gly Glu Phe Pro Ser Leu Val Ser Gly
20 25 30

Ile Tyr Ser His Leu
35

<210> 3866
<211> 43
<212> PRT
<213> Homo sapiens

<400> 3866
Met Ser Thr Leu Phe Thr Trp Leu Met Val Leu Arg Tyr Leu Leu Pro
1 5 10 15

Asn Ser Cys Phe Val Leu Asn Arg Pro Ser Phe Cys Asn Pro Phe Gly
20 25 30

Thr Ser Pro Ile Ser Cys Arg Lys Ala Ser Ser
35 40

<210> 3867
<211> 70
<212> PRT
<213> Homo sapiens

<400> 3867
Met Pro Asn Gly His Trp His Trp Ala Cys Leu Cys His Trp Gly Ser
1 5 10 15

Thr Gln Ala Val Ser Ile Cys Ala Thr Leu Ala Phe Pro Ser Arg Ser
20 25 30

Ser Arg Arg Trp Ala Ser Thr Thr Thr Arg Pro Leu Ala Ala Ser Leu
35 40 45

Leu Ser His Cys Thr Leu Leu Arg Gly Phe Leu Arg Arg Gln Asp Ser
50 55 60

Ala Val Pro Cys Cys Ser
65 70

<210> 3868
<211> 33
<212> PRT
<213> Homo sapiens

<400> 3868
Met Thr Ser Ile Thr Ser His Val Leu Val Thr Val Leu Leu Ile Ile
1 5 10 15

Ser Leu Ser Thr Gln Thr Leu Glu Thr Val Ser Leu Thr Arg Ser Arg
20 25 30

Glu

<210> 3869

<211> 23
<212> PRT
<213> Homo sapiens

<400> 3869
Met Ala Cys Ile Leu Phe Leu Asn Ala Phe Leu Leu Ile Pro Ile Leu
1 5 10 15

Leu Gly Ile Trp Thr Phe Tyr
20

<210> 3870
<211> 58
<212> PRT
<213> Homo sapiens

<400> 3870
Met Lys Ser Phe Gln Ile Pro Leu Phe Phe Phe Pro Asn Gly Phe His
1 5 10 15

Met Cys Leu Lys Tyr Leu Tyr Phe Glu Leu Ser Asp Phe Pro Cys Pro
20 25 30

Pro Phe Ser Phe Val Pro Ser Leu Ser Gln His Gln Ser Arg Ile Gln
35 40 45

Asn Leu Pro Val Lys Gly Gln Pro Ser Phe
50 55

<210> 3871
<211> 28
<212> PRT
<213> Homo sapiens

<400> 3871
Met Leu Val Gly Ala Ala Leu Pro Leu Val Pro Gly Val Ala Ser Ala
1 5 10 15

Gln Ser Gln Arg Ala Gly Ser Arg Val Leu His Arg
20 25

<210> 3872
<211> 32
<212> PRT
<213> Homo sapiens

<400> 3872
Met Ser Asn Ala Glu Leu Ala Leu Leu Leu Phe Ile Ile Leu Thr Val
1 5 10 15

Gly His Tyr Ala Val Val Trp Ser Ile Tyr Leu Gly Lys Thr Thr Gly
20 25 30

<210> 3873
<211> 46
<212> PRT
<213> Homo sapiens

<400> 3873
Met Val Ser Gly Leu Ile Lys His Ser Asn Trp Leu Cys Phe Thr Leu
1 5 10 15

Ala Leu Val His Ala Lys Cys Ser Ile Ser Phe Ser Leu Leu His Cys
20 25 30

Ser Phe Ala Met Leu Leu Cys Ser Gly Leu Asp Val Ile Phe
35 40 45

<210> 3874
<211> 24
<212> PRT
<213> Homo sapiens

<400> 3874
Met Trp Phe Leu Ser Leu Leu Leu Ser Phe Ile Cys Phe Leu Ile Ser
1 5 10 15

Ala Glu Tyr Glu Ile Cys Leu Phe
20

<210> 3875
<211> 32
<212> PRT
<213> Homo sapiens

<400> 3875
Met Ala Ala Pro Gly Trp Pro Gly Pro Arg Ser Ala Ser Val Val Ala
1 5 10 15

Leu Thr Phe Asp Lys Ser Phe Pro Cys Leu Cys Leu Gly Cys Pro Ile
20 25 30

<210> 3876
<211> 55
<212> PRT
<213> Homo sapiens

<400> 3876
Gly Leu Pro Phe Cys Leu Val Leu Ala Cys Ile Leu Pro Cys Tyr His
1 5 10 15

Leu Leu Leu Phe Leu Pro Arg Trp Phe Val Lys Asn Lys Ser Pro Gly

20 25 30

Cys Met Cys Pro Leu Ile His Ser Val Trp Ala Lys Glu Asn Glu Ala
35 40 45

Leu Met Val Thr Trp Cys Phe
50 55

<210> 3877
<211> 9
<212> PRT
<213> Homo sapiens

<400> 3877
Met Tyr Cys Leu Ser Ala Ile Leu Ile
1 5

<210> 3878
<211> 50
<212> PRT
<213> Homo sapiens

<400> 3878
Met Ala Leu Ser His Leu Leu Leu His Ser Arg Pro Leu Leu Glu Val
1 5 10 15

Cys Leu Ser His Val Leu Leu Ser Pro His Glu Arg Pro Leu Leu Leu
20 25 30

Phe Pro Cys Leu Leu Ser Gly Leu Ser Gly Ala Val Leu Arg Val Leu
35 40 45

Leu Gly
50

<210> 3879
<211> 34
<212> PRT
<213> Homo sapiens

<400> 3879
Phe Cys Thr Val Cys Leu Leu Thr Phe Ile Glu His Ile Leu Pro Ser
1 5 10 15

Ser Ile Arg Ile Thr His Leu Met Val Arg Lys Ser Cys Trp Glu Tyr
20 25 30

Asp Ser

<210> 3880
<211> 57
<212> PRT

<213> Homo sapiens

<400> 3880
Met Ala Ala Ile Trp His Phe Ala Phe Cys Thr Tyr Leu Asp Val Leu
1 5 10 15

Asp Ile Ser Pro Arg Pro Leu Ile Asp Asn Cys Pro Gly Val Phe Leu
20 25 30

Ala Ala Glu Met Met Trp Thr Glu Phe Ile Trp Pro Ile Pro Arg Gln
35 40 45

Trp Pro Leu Arg Leu Phe Pro Lys Phe
50 55

<210> 3881
<211> 72
<212> PRT
<213> Homo sapiens

<400> 3881
Met Arg Ala Gly Thr Phe Asp Trp Phe Ala Val Ala Cys Gln Glu Leu
1 5 10 15

Tyr Leu Leu Arg Ala Gln Met Thr Glu Ser Val Gln Pro Ser Val Ile
20 25 30

His Leu Phe Ser Leu Phe Leu Phe Pro Tyr Arg Val Cys Glu Pro Leu
35 40 45

Leu Thr Lys Tyr Gln Ser Gly Pro Ser Pro Ala His Val Lys Glu Glu
50 55 60

Gly Ala Val Gly Leu Arg Pro His
65 70

<210> 3882
<211> 15
<212> PRT
<213> Homo sapiens

<400> 3882
Met Thr Thr Val Ser Pro Ile Pro Ile Ser Cys Leu Phe Ala Ala
1 5 10 15

<210> 3883
<211> 23
<212> PRT
<213> Homo sapiens

<400> 3883
Met Leu Val Gly Val Val Asp Val Ser Cys Leu Leu Trp Pro Ser Leu
1 5 10 15

Pro Leu Leu Pro Glu Asn Thr

20

<210> 3884
<211> 59
<212> PRT
<213> Homo sapiens

<400> 3884
Thr Leu Ala Gln Glu His Arg Ser Arg Gly Leu Ala Trp Ser Thr Arg
1 5 10 15

Pro Pro Leu Cys Lys Ala Pro Glu Gly Pro Arg Gly Cys Gly Leu Ile
20 25 30

Arg Arg Leu His Leu Trp Thr Gly Leu His Thr Arg Ser Tyr Arg Thr
35 40 45

Ala Ile Cys Leu Pro Cys Arg Gly Arg Trp Pro
50 55

<210> 3885
<211> 86
<212> PRT
<213> Homo sapiens

<400> 3885
Met Gln Ser Arg Glu Pro Pro Pro Val Cys Phe Met Ala Met Val Leu
1 5 10 15

Ser Ala Cys Val Phe Ser Phe Phe Leu Asn Arg Leu Phe Ser Gly Ser
20 25 30

Leu Ile Ser Leu Ser Ala Ser Arg Ser Leu Phe Cys Leu Gly Cys Phe
35 40 45

Ser Pro Ala Val Pro Ser Thr Arg Phe Pro Gly Ser Cys Pro Pro Arg
50 55 60

Ala Leu Pro Gln Gly Ser Thr Thr Pro Arg Cys Ser Pro Thr Ala Leu
65 70 75 80

Ser Gly Arg Pro Pro Val
85

<210> 3886
<211> 19
<212> PRT
<213> Homo sapiens

<400> 3886
Met Leu His Cys Phe Lys Lys Lys Lys Met Leu Met Ile Val Leu Gly
1 5 10 15

Leu Gln Ala

<210> 3887
<211> 33
<212> PRT
<213> Homo sapiens

<400> 3887
Met Met Leu Ala Leu Phe Ile Val Leu Leu Leu Ile Pro Pro Arg Gln
1 5 10 15

Asn Glu Asn Gln Met Pro Phe Pro Glu Gly Leu Ser Glu Gly Phe Gly
20 25 30

Pro

<210> 3888
<211> 48
<212> PRT
<213> Homo sapiens

<400> 3888
Met Gly Leu Gln Val Thr Pro Pro Leu Ser Phe Thr Gly Leu Trp Phe
1 5 10 15

Val Val Met Ala Asn Met Gly Trp Gln Arg Thr Ile Leu Thr Lys Val
20 25 30

Glu Ala Leu Gln His Gly Val Gln Pro Leu Ser Met Asp Ser Gly Pro
35 40 45

<210> 3889
<211> 20
<212> PRT
<213> Homo sapiens

<400> 3889
Met Gly Cys Pro Gly Leu Glu Gly Thr Leu Phe Leu Pro Pro Pro Leu
1 5 10 15

Pro Asn Leu Ser
20

<210> 3890
<211> 98
<212> PRT
<213> Homo sapiens

<400> 3890
Met Asn Thr Lys Gly Arg Asp Phe His Leu Ala Val Phe Val Phe Pro

1 5 10 15

Gln Pro Ser Met Val Arg Gly Ser Arg Asn Gly Cys Leu Ile Thr Ala
20 25 30

Val Thr Pro Ser Arg Lys Asp Ser Gln Arg Asn Cys Ser Leu Lys Lys
35 40 45

Lys Lys Ile His Lys Val Gly Cys Thr Leu Lys Val Leu Arg Arg Ala
50 55 60

Ser Val Leu Glu Asn Leu Pro Glu Ile Leu Lys Ala Tyr Lys Lys Gly
65 70 75 80

Glu Ser Ser Lys Leu Asn Phe Asp Ser His Gly Trp Gly Leu Tyr Leu
85 90 95

Phe Leu

<210> 3891
<211> 21
<212> PRT
<213> Homo sapiens

<400> 3891
Met Glu Thr Ser Gly Leu Val Trp Leu Leu Leu Leu Glu Lys Leu Gly
1 5 10 15

Ala Lys Ala Ala Ser
20

<210> 3892
<211> 10
<212> PRT
<213> Homo sapiens

<400> 3892
Met Gly Gly Val Ser Gly Phe Ser Val Ala
1 5 10

<210> 3893
<211> 38
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3893
Met Ala Leu Gln Trp Phe Cys Ile Leu Val Gly Asn Leu Phe Trp Phe
1 5 10 15

Ile Leu Ala Phe Pro Gln Pro Ser Cys Trp Phe Phe Gly Lys Met Trp
20 25 30

His Pro Xaa Gln Thr Xaa
35

<210> 3894
<211> 59
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3894
Met Ala Leu Tyr Ala Gly Phe Leu Leu Trp Ala Gly His Leu Gln Glu
1 5 10 15

Gly Tyr Ser Trp Arg Asn Gly Trp Gly Xaa Val Ala Val Asp Ser Ser
20 25 30

Leu Gly Pro Glu Arg Ile Glu Ser Glu Leu Gly Lys Leu Gln Ser Glu
35 40 45

Leu Lys Ser Arg Asn Pro Val Gly Gly Lys Tyr
50 55

<210> 3895
<211> 141
<212> PRT
<213> Homo sapiens

<400> 3895
His Ser Leu Leu Leu Leu Leu Leu Leu Thr Leu Leu Gly Leu Gly Leu
1 5 10 15

Val Gln Pro Ser Tyr Gly Gln Asp Gly Met Tyr Gln Arg Phe Leu Arg
20 25 30

Gln His Val His Pro Glu Glu Thr Gly Gly Ser Asp Arg Tyr Cys Asn
35 40 45

Leu Met Met Gln Arg Arg Lys Met Thr Leu Tyr His Cys Lys Arg Phe
50 55 60

Asn Thr Phe Ile His Glu Asp Ile Trp Asn Ile Arg Ser Ile Cys Ser
65 70 75 80

Thr Thr Asn Ile Gln Cys Lys Asn Gly Lys Met Asn Cys His Glu Gly
85 90 95

Val Val Lys Val Thr Asp Cys Arg Asp Thr Gly Ser Ser Arg Ala Pro
100 105 110

Asn Cys Arg Tyr Arg Ala Ile Ala Ser Thr Arg Arg Val Val Ile Ala
115 120 125

Cys Glu Gly Asn Pro Gln Val Pro Val His Phe Asp Gly
130 135 140

<210> 3896
<211> 68
<212> PRT
<213> Homo sapiens

<400> 3896
Met Trp Arg Gly Val Ala Arg Gly Arg Lys Arg Lys Cys Leu Val Leu
1 5 10 15

Phe Cys Ser Pro Ala Leu Leu Ser Gln Gln Leu Phe Val Ile Val Val
20 25 30

Val Val Leu Arg Gln Val Pro Pro Gly Ala Cys Gly Ile Leu Leu Pro
35 40 45

Val Ser Val Ser Lys Cys His Arg Pro Pro Ile Ala Thr Tyr Ser Trp
50 55 60

His Cys Thr Phe
65

<210> 3897
<211> 16
<212> PRT
<213> Homo sapiens

<400> 3897
Met Phe Gln Ser Val Ser Leu Thr Tyr Leu His Phe Lys Tyr Gly Leu
1 5 10 15

<210> 3898
<211> 29
<212> PRT
<213> Homo sapiens

<400> 3898
Met Ala Val Arg Phe Glu Ala Leu Gln Ser Cys Gly Thr Pro Trp Cys
1 5 10 15

Val Cys Ser Val Leu Gly Thr Cys Met Gly Thr His Arg
20 25

<210> 3899
<211> 32
<212> PRT
<213> Homo sapiens

<400> 3899
Met Leu His Leu Ser Ser Phe Leu Val Tyr Phe Ala Asn Trp Leu Leu
1 5 10 15

Asn Ser Glu Thr Trp Ser Asp Ser Gly Ser Val Ser Leu Ala Ile Leu
20 25 30

<210> 3900
<211> 15
<212> PRT
<213> Homo sapiens

<400> 3900
Met Phe Ser Ile Ile Ala Phe Pro Leu Ile Leu Leu Thr Cys Cys
1 5 10 15

<210> 3901
<211> 72
<212> PRT
<213> Homo sapiens

<400> 3901
Met Ile Ser Ser Gly Ser Ser Arg Tyr Ala Glu Thr Trp Asp Leu Leu
1 5 10 15

Leu Phe Leu Arg Leu Thr Cys Cys Ala His Cys Ala Trp Thr Pro Trp
20 25 30

His Asp Ala Gly Arg Gly Cys Arg Thr His Thr Ser Phe Glu Val Arg
35 40 45

Gln Ser Thr Asn Pro Ser Ser Thr Thr His Ser Phe Ser Ser Ser Gln
50 55 60

Leu Cys Gly Leu Gly Gln Ile Ala
65 70

<210> 3902
<211> 37
<212> PRT
<213> Homo sapiens

<400> 3902
Leu Leu Leu Val Leu Leu Ile Phe Val Ala Ser Ala His Gly Ala Leu
1 5 10 15

Val Ser Pro Gln Ser Asn Gly Gly Ser Pro Lys Gln Leu His Tyr Arg
20 25 30

Val Ile Leu Gly Lys
35

<210> 3903
<211> 25
<212> PRT
<213> Homo sapiens

<400> 3903
Met Phe Glu Ile Arg Thr Ala Leu Ser Leu Arg Leu Ile Pro Leu Phe
1 5 10 15

Val Ser Thr Cys Gly Val Thr Gln Lys
20 25

<210> 3904
<211> 30
<212> PRT
<213> Homo sapiens

<400> 3904
Met Leu Val Ala Phe Leu Val Leu Tyr Phe Ser Phe Pro Tyr Leu Ala
1 5 10 15

Phe Val Gly Pro Lys Pro Thr Asn Asn Arg Leu Leu Lys Glu
20 25 30

<210> 3905
<211> 66
<212> PRT
<213> Homo sapiens

<400> 3905
Met Leu Ser Tyr Val Val Leu Met Phe Ile Leu Lys Leu Val Thr Phe
1 5 10 15

Pro Arg Lys Ile Leu Phe Asp Ser Ile Thr Ser Leu Asp Ile Ile Leu
20 25 30

Asn Gln Ser Gly Lys Glu Lys Lys Tyr Arg Lys Tyr Tyr Asn Leu Cys
35 40 45

Phe His His Lys Ile Phe Cys Ile Ser Ile Leu Leu Gln Tyr Gly Arg
50 55 60

Arg Leu
65

<210> 3906

<211> 70
<212> PRT
<213> Homo sapiens

<400> 3906
Met Leu Gly Phe Leu Thr Phe Arg Ser Leu Thr Trp Ile Arg Leu Gly
1 5 10 15

Ala Ala Gln Trp Ser Arg Trp Val Pro Val Ser Leu Val Ile Arg Arg
20 25 30

Gly Leu Gly Val Gly Arg Ala Pro Glu Ser Gln Gln Cys Ala Trp Ala
35 40 45

Pro Thr Pro Ser Ser Thr Cys His Thr Ser Glu Gly Ser Tyr Ser Cys
50 55 60

Thr Gln Ala Val Glu Ser
65 70

<210> 3907
<211> 30
<212> PRT
<213> Homo sapiens

<400> 3907
Met Tyr Ile Lys Ser Pro Cys Cys Ala Cys Leu Ile Tyr Val Ile Phe
1 5 10 15

Ile Cys Gln Leu Cys Leu Thr Lys Ala Cys Gly Trp Gly Glu
20 25 30

<210> 3908
<211> 20
<212> PRT
<213> Homo sapiens

<400> 3908
Met Leu Leu Leu Tyr Phe Phe Gln His Ile Gln Pro Ser Pro Trp Gly
1 5 10 15

Ala Phe His Ile
20

<210> 3909
<211> 18
<212> PRT
<213> Homo sapiens

<400> 3909
Met Phe Pro Ser Trp Pro Phe Leu Trp Leu Thr Leu Cys Ser Leu Cys
1 5 10 15

Ile Cys

<210> 3910
<211> 42
<212> PRT
<213> Homo sapiens

<400> 3910
Met Glu Lys Cys Glu Lys Leu Asn Cys Leu Glu Met Ser Arg Phe Phe
1 5 10 15

Tyr Leu Gln Leu Leu Leu Ala Cys Pro Thr Val Val Phe Glu Tyr Phe
20 25 30

Leu Tyr Ser Thr Pro Lys Asp Phe Asn Phe
35 40

<210> 3911
<211> 50
<212> PRT
<213> Homo sapiens

<400> 3911
Met Phe Tyr Phe Met Asn Leu Thr Lys Phe Phe Phe Leu Asp Leu Ala
1 5 10 15

Asn Phe Asn Arg Val Phe Ser Tyr Gln Thr Phe Thr Tyr Leu Leu Lys
20 25 30

Leu His Ser Cys Lys Leu Phe Gly Gly Ile Cys Phe Tyr Phe Tyr Phe
35 40 45

Val Val
50

<210> 3912
<211> 37
<212> PRT
<213> Homo sapiens

<400> 3912
Leu Asn Asp Gly Leu Cys Trp Phe Phe Cys Leu Phe Gly Trp Phe Val
1 5 10 15

Cys Leu Phe Trp His Ser Val Lys Gly Ser Gln Thr Phe Thr Tyr Tyr
20 25 30

Leu Leu Ser Cys Pro
35

<210> 3913
<211> 37
<212> PRT
<213> Homo sapiens

WO 2004/046299 PCT/US2003/036459

<400> 3913
Leu Asn Asp Gly Leu Cys Trp Phe Phe Cys Leu Phe Gly Trp Phe Val
1 5 10 15

Cys Leu Phe Trp His Ser Val Lys Gly Ser Gln Thr Phe Thr Tyr Tyr
20 25 30

Leu Leu Ser Cys Pro
35

<210> 3914
<211> 38
<212> PRT
<213> Homo sapiens

<400> 3914
Met Thr Cys Ala Arg Ser Pro Leu Ala Leu Pro Thr Pro Leu Phe Phe
1 5 10 15

Phe Leu Leu Ile Leu Tyr Ser Gln Lys Arg Ile Ser Phe Ser Ser Phe
20 25 30

Phe His Ser Leu Lys Phe
35

<210> 3915
<211> 34
<212> PRT
<213> Homo sapiens

<400> 3915
His Leu Phe Tyr Leu Gly Phe Ile His Leu Leu Glu Cys Val Gly Leu
1 5 10 15

His Leu Leu Pro Lys Leu Gly Ser Phe Lys Ala Phe Phe Leu Gln Ile
20 25 30

Tyr Phe

<210> 3916
<211> 140
<212> PRT
<213> Homo sapiens

<400> 3916
Ser Gln Leu Phe Gly Trp Leu Leu Ile Gly Val Val Ala Ile Leu Val
1 5 10 15

Phe Leu Thr Lys Cys Leu Lys His Tyr Cys Ser Pro Leu Ser Tyr Arg
20 25 30

Gln Glu Ala Tyr Trp Ala Gln Tyr Arg Ala Asn Glu Asp Gln Leu Phe
35 40 45

Gln Arg Thr Ala Glu Val His Ser Arg Val Leu Ala Ala Asn Asn Val
50 55 60

Arg Arg Phe Phe Gly Phe Val Ala Leu Asn Lys Asp Asp Glu Glu Leu
65 70 75 80

Ile Ala Asn Phe Pro Val Glu Gly Thr Gln Pro Arg Pro Gln Trp Asn
85 90 95

Ala Ile Thr Gly Val Tyr Leu Tyr Arg Glu Asn Gln Gly Leu Pro Leu
100 105 110

Tyr Ser Arg Leu His Lys Trp Ala Gln Gly Leu Ala Gly Asn Gly Ala
115 120 125

Ala Pro Asp Asn Val Glu Met Ala Leu Leu Pro Ser
130 135 140

<210> 3917
<211> 11
<212> PRT
<213> Homo sapiens

<400> 3917
Met Gln Glu Ser Pro Ser Gln Leu Leu Ser Ser
1 5 10

<210> 3918
<211> 33
<212> PRT
<213> Homo sapiens

<400> 3918
Met Gln Ser Val Ser Phe Leu Val Val Ser Phe Leu Gly Gln Cys Phe
1 5 10 15

Phe Val Phe Phe Leu Glu Met Phe Val Leu Pro Pro Pro Val Asp Pro
20 25 30

Gly

<210> 3919
<211> 79
<212> PRT
<213> Homo sapiens

<400> 3919
Met Pro Leu Arg Arg Ser Gly Gly Phe Glu Tyr Leu Ser Leu Pro Pro
1 5 10 15

Ile Gln Glu Ile Gln Ser Leu Val Ser Leu Ser Leu Ser Val Ser Phe
20 25 30

Phe Leu Phe Leu Pro Pro Asn Pro Ser His Ser Leu Pro Pro Ser Leu
35 40 45

Leu Pro Leu Phe Ala Ile Ile Phe Ser Leu Cys Phe Phe Ser Leu Leu
50 55 60

Pro Ser Leu Trp Ala Val Met Lys Ile Asn Ser Asp Cys Val His
65 70 75

<210> 3920
<211> 31
<212> PRT
<213> Homo sapiens

<400> 3920
Met Ser Gly Glu Asp Pro Leu Leu Ser Ile Pro Thr Cys Ala Thr Pro
1 5 10 15

Gly Ser Pro Cys Trp Gly Leu Leu Gly Pro Phe Ser Ser Cys Leu
20 25 30

<210> 3921
<211> 1
<212> PRT
<213> Homo sapiens

<400> 3921
Ile
1

<210> 3922
<211> 23
<212> PRT
<213> Homo sapiens

<400> 3922
Met Ser Asp Pro Lys Glu Asn Val Phe Thr Leu Met Leu Arg Cys Ser
1 5 10 15

Ala Ala Pro Leu Cys Ser Val
20

<210> 3923
<211> 35
<212> PRT
<213> Homo sapiens

<400> 3923
Met Phe Pro Asn Ile Met Phe Cys Thr Leu Met Leu Ile Ser Leu Cys
1 5 10 15

Val Val Pro Asp Thr Ser Trp Asp Leu Lys Lys Cys Cys Phe Phe Leu
20 25 30

Lys Asp Gly
35

<210> 3924
<211> 9
<212> PRT
<213> Homo sapiens

<400> 3924
Met Val Gly Ser Val Asp Phe Ser Phe
1 5

<210> 3925
<211> 22
<212> PRT
<213> Homo sapiens

<400> 3925
Met Leu Leu Leu Gly Leu Glu Gly Leu Leu Phe Met Leu Phe Asn Ala
1 5 10 15

Leu Ser Asn Val Phe Phe
20

<210> 3926
<211> 3
<212> PRT
<213> Homo sapiens

<400> 3926
Leu Leu Ile
1

<210> 3927
<211> 37
<212> PRT
<213> Homo sapiens

<400> 3927
Met Gly Ile Gly Ala Leu Ile Leu Leu Phe Phe Leu Thr Val Val Leu
1 5 10 15

Pro Phe Tyr Gly Phe Asn Gln Pro Pro Pro Pro Gly Lys His Leu Leu
20 25 30

Trp Ala Cys Trp Val
35

<210> 3928
<211> 43

<212> PRT
<213> Homo sapiens

<400> 3928
Met Ala Val His His Pro Ala Phe Gln Leu Asn Val Thr Cys Leu Leu
1 5 10 15

Leu Leu Lys Met Ala Phe Cys Val Leu Gln Arg Leu Ala Trp Glu Val
20 25 30

Leu Cys Ser Ile Ala Val Asn Leu Asp Thr Phe
35 40

<210> 3929
<211> 52
<212> PRT
<213> Homo sapiens

<400> 3929
Leu Pro Leu Glu Asp Leu Cys Lys Gly Gly Leu Gly Thr Lys Glu Asn
1 5 10 15

Val Leu Phe Gly Arg Ala Gly Ser Lys Gly Thr Gly Gln Gly Leu Val
20 25 30

Gly Leu Gly Asn Gly Ser Leu Ser Trp Ile Pro Leu Met Lys Arg Leu
35 40 45

Gly Leu Phe Thr
50

<210> 3930
<211> 39
<212> PRT
<213> Homo sapiens

<400> 3930
Met Ala Ala Arg Pro Leu Pro Val Ser Pro Ala Arg Ala Leu Leu Ala
1 5 10 15

Arg Pro Gly Arg Cys Ser Ala Arg Ala Leu Arg Gly Pro Arg Gly Glu
20 25 30

Leu Met Glu Pro Arg Lys Ser
35

<210> 3931
<211> 72
<212> PRT
<213> Homo sapiens

<400> 3931
Met Met Pro Val Cys Arg Val Gly Leu Trp Asn Gly Ser Cys Leu Cys
1 5 10 15

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Val Cys Val Cys Ile Phe Met Gly Met Gly Ala Cys Leu Val Cys Ile
             20                  25                  30

Cys Thr Cys Leu Tyr Cys Cys Val Pro Val Asn Thr Cys Leu Cys Met
         35                  40                  45

Asp Gly Arg Ser Gln Ala Gln Ala Trp Pro Leu Pro Arg Ala Cys Gly
     50                  55                  60

His Thr Ser Cys Ser Ser Pro Lys
 65                  70
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<210> 3932
<211> 11
<212> PRT
<213> Homo sapiens

<400> 3932
Met His Phe His Ala Asp Tyr Met His Gly Cys
  1   5   10

<210> 3933
<211> 31
<212> PRT
<213> Homo sapiens

<400> 3933
Met Gly Ser Tyr Lys Gly Ser Thr Lys Lys Val Lys Phe Ile Leu Met
  1   5   10   15

Thr Leu Lys Ile Tyr Met Phe Val Leu Asn Val Gly Arg Cys Gln
             20   25   30

<210> 3934
<211> 6
<212> PRT
<213> Homo sapiens

<400> 3934
Met Cys Ser Leu Pro Leu
  1   5

<210> 3935
<211> 32
<212> PRT
<213> Homo sapiens

<400> 3935
Met Phe Leu Ile Ser Ile Glu Ile Ala Leu Leu Pro His Ile Ser Leu
  1   5   10   15

Ala Tyr Pro Trp Ser Leu Ala Ile Leu Asp Lys Asp Met Leu Phe Lys
             20   25   30

<210> 3936
<211> 33
<212> PRT
<213> Homo sapiens

<400> 3936
Met Phe Leu Ile Ile Phe Ile Ser Leu Asn Phe Ser Leu Cys His Ser
1 5 10 15

Asn Leu Thr Phe Thr His Gln Gln Ile Thr Met Gln Lys Lys Lys Tyr
20 25 30

Phe

<210> 3937
<211> 53
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3937
Met Ser His Cys Leu Phe Leu Xaa Phe Cys Leu Lys Ile Pro Ser Trp
1 5 10 15

Lys Ser Cys His Ala Ile Gly Asp Cys Asp Ile Leu Leu Val Met Tyr
20 25 30

Thr Ala Thr Gly Phe Val Cys Tyr Val Asp Gly Leu Tyr Leu Cys Tyr
35 40 45

Ser Glu Gly Ile Lys
50

<210> 3938
<211> 97
<212> PRT
<213> Homo sapiens

<400> 3938
Met Ala Gln Pro Pro Gln Asn Leu Lys Arg Phe Ser Ser Cys Arg Ala
1 5 10 15

Phe Ala Arg Leu Gly Tyr Pro Pro Tyr Phe Pro Cys Leu Pro Ser Ser
20 25 30

Ala Ala Arg Pro Ser Val Pro Ala Ser Ala Gln Pro Ser Val Lys Gly

```
         35                  40                  45

Ser Pro Ala Ser Asn Leu His Cys Thr Ala Ser Pro Lys Thr Val Thr
     50                  55                  60

Ser Trp Lys Ala Gly Ala Gln Leu Pro Leu Asn Lys Arg Val Ala Lys
 65                  70                  75                  80

Lys Glu Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Gly
                 85                  90                  95

Arg
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PCT/US2004/035...

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<210> 3939
<211> 22
<212> PRT
<213> Homo sapiens

<400> 3939
Met Thr Phe Phe Val Phe Met Glu Val Arg Thr Pro Val Met Gln Thr
  1               5                  10                  15

Gly Ser Arg Ser Leu Leu
             20


<210> 3940
<211> 7
<212> PRT
<213> Homo sapiens

<400> 3940
Met Lys Cys Ile Leu Glu Phe
  1               5


<210> 3941
<211> 30
<212> PRT
<213> Homo sapiens

<400> 3941
Met Tyr Leu Phe Asn Asn Phe Phe Phe Ser Ser Trp Tyr Leu Ile Leu
  1               5                  10                  15

Val Leu Leu Asn Gln Tyr Ser Gly Thr Ile Val Gly Val Tyr
             20                  25                  30


<210> 3942
<211> 29
<212> PRT
<213> Homo sapiens

<400> 3942
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Met Gly Ala Arg His Cys Ile Trp Pro Phe Cys Arg Tyr Phe Phe Pro
1 5 10 15

Leu Ser Leu Ile Val Pro Ile Asp Phe Ser Pro Phe Leu
20 25

<210> 3943
<211> 38
<212> PRT
<213> Homo sapiens

<400> 3943
Met Lys Glu Thr Gly Leu Ile Ala Ile Ile Leu Leu Leu Ala Ala Phe
1 5 10 15

Ser Lys Ser Leu Phe Leu Lys Pro Pro Pro Ile Leu Phe Lys Gln Ile
20 25 30

Lys Thr Lys Ile Ser Cys
35

<210> 3944
<211> 6
<212> PRT
<213> Homo sapiens

<400> 3944
Ile Tyr Ser Ala Leu Asp
1 5

<210> 3945
<211> 34
<212> PRT
<213> Homo sapiens

<400> 3945
Met Arg Ser Phe Cys Phe Leu Gly Lys Val Phe His Phe Leu Val Trp
1 5 10 15

Leu Phe Ala His Pro Arg Arg Arg Lys Thr Ser Leu Arg Val Thr Phe
20 25 30

Thr Trp

<210> 3946
<211> 34
<212> PRT
<213> Homo sapiens

<400> 3946
Met Arg Leu Cys Val Phe Leu Ala Leu Leu His Val Pro Phe Gln Leu
1 5 10 15

Met Ala His Ser Asp Ser Gln Arg Phe Met Pro Lys Leu His Thr Ile
20 25 30

Val Phe

<210> 3947
<211> 33
<212> PRT
<213> Homo sapiens

<400> 3947
Met Arg Leu Gly Ala Lys Thr Ser Leu Phe Phe Phe Ser Phe Leu Phe
1 5 10 15

Leu Leu Val Phe Ala Lys Leu Leu Leu Leu Lys Lys Gly Ser Tyr Cys
20 25 30

Tyr

<210> 3948
<211> 71
<212> PRT
<213> Homo sapiens

<400> 3948
Met Ser Tyr Ile Thr Leu Leu Lys Phe Ile Leu Tyr Phe Phe Ser Leu
1 5 10 15

Val Ser Glu Phe Arg Lys Leu Ile Pro Phe Ile Met Phe Ser Leu Tyr
20 25 30

Trp Leu Cys Tyr Phe Asp Leu Thr Ile Leu Phe Lys Ser Leu Ile Thr
35 40 45

Tyr Leu Phe Phe Leu Phe Ser Phe Tyr Ser Ile Ile Ile Pro Ile Arg
50 55 60

Glu Phe Val Thr Pro Glu Lys
65 70

<210> 3949
<211> 20
<212> PRT
<213> Homo sapiens

<400> 3949
Met Lys Leu Leu Ala Leu Val Ile Ser Ile Leu Ile Cys Thr Gly Gln
1 5 10 15

Ile Tyr Asn Cys
20

<210> 3950
<211> 35
<212> PRT
<213> Homo sapiens

<400> 3950
Met Glu Ala Ala Lys Ser Leu Cys Pro Arg Ala Pro Leu Ser Cys Ser
1 5 10 15

Ala Leu Leu Leu Cys Ser Phe Cys Ile Val Gly Glu Asp Gly Tyr His
20 25 30

Cys Val Cys
35

<210> 3951
<211> 33
<212> PRT
<213> Homo sapiens

<400> 3951
Met Ser Glu Phe Leu Leu Leu Cys Ile Phe Pro Ser Ile Trp Tyr Cys
1 5 10 15

Gln Phe Lys His Lys Cys Trp Glu Arg Tyr Arg Ala Thr Gly Thr Leu
20 25 30

Thr

<210> 3952
<211> 49
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3952
Tyr Phe Thr Val Ile Tyr Phe Xaa Phe Gln Leu Ser Ile Phe Xaa Xaa
1 5 10 15

Ser Leu Ser Met Gly Thr Tyr Leu Pro His Phe Phe Arg Ser Asp Met

20 25 30

Thr His Lys Lys Asp Gly Phe Gly Phe Leu Lys Thr Leu Thr Ile Ser
35 40 45

Asn

<210> 3953
<211> 30
<212> PRT
<213> Homo sapiens

<400> 3953
Met Ile Phe Leu Phe Leu Phe Phe Val Phe Cys Phe Leu Val Ser Gln
1 5 10 15

Tyr Val Ser Pro Phe Tyr Ser Asn Thr Phe Phe Gly Val Gln
20 25 30

<210> 3954
<211> 29
<212> PRT
<213> Homo sapiens

<400> 3954
Met Cys Leu Pro Ser Asp Val Thr Phe Pro Leu Leu Leu Leu Gly Met
1 5 10 15

Cys Leu Val Pro Leu Ser Pro Ala His Val Thr Val Thr
20 25

<210> 3955
<211> 12
<212> PRT
<213> Homo sapiens

<400> 3955
Met Ile Val Ile Val Phe Tyr Leu Ile Asn Leu Leu
1 5 10

<210> 3956
<211> 81
<212> PRT
<213> Homo sapiens

<400> 3956
Trp Gly Lys Ile Leu Val Val Leu Met Val Asn Leu Ser Tyr Trp Ile
1 5 10 15

Leu Cys Met Pro His Ser Arg Ile His Cys Leu Ser Leu Ile Met Asp
20 25 30

```
Gly Met Gln Gln His Pro Ser Ile Leu His Ser Leu Gln Gly Lys Asn
         35                  40                  45

Cys Ala Trp Gly Leu Lys Cys Ser Met Cys Ser Ser Ile Ser Leu Ser
     50                  55                  60

Ser Val Met Gln Asn Gly Ile Phe Asn Gly Arg Ser Ala Leu Leu Arg
 65                  70                  75                  80

Cys
```

<210> 3957
<211> 520
<212> PRT
<213> Homo sapiens

<400> 3957

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Met Val Thr Ser Ser Phe Pro Ile Ser Val Ala Val Phe Ala Leu Ile
  1               5                  10                  15

Thr Leu Gln Val Gly Thr Gln Asp Ser Phe Ile Ala Ala Val Tyr Glu
             20                  25                  30

His Ala Val Ile Leu Pro Asn Lys Thr Glu Thr Pro Val Ser Gln Glu
         35                  40                  45

Asp Ala Leu Asn Leu Met Asn Glu Asn Ile Asp Ile Leu Glu Thr Ala
     50                  55                  60

Ile Lys Gln Ala Ala Glu Gln Gly Ala Arg Ile Ile Val Thr Pro Glu
 65                  70                  75                  80

Asp Ala Leu Tyr Gly Trp Lys Phe Thr Arg Glu Thr Val Phe Pro Tyr
                 85                  90                  95

Leu Glu Asp Ile Pro Asp Pro Gln Val Asn Trp Ile Pro Cys Gln Asp
            100                 105                 110

Pro His Arg Phe Gly His Thr Pro Val Gln Ala Arg Leu Ser Cys Leu
        115                 120                 125

Ala Lys Asp Asn Ser Ile Tyr Val Leu Ala Asn Leu Gly Asp Lys Lys
    130                 135                 140

Pro Cys Asn Ser Arg Asp Ser Thr Cys Pro Pro Asn Gly Tyr Phe Gln
145                 150                 155                 160

Tyr Asn Thr Asn Val Val Tyr Asn Thr Glu Gly Lys Leu Val Ala Arg
                165                 170                 175

Tyr His Lys Tyr His Leu Tyr Ser Glu Pro Gln Phe Asn Val Pro Glu
            180                 185                 190

Lys Pro Glu Leu Val Thr Phe Asn Thr Ala Phe Gly Arg Phe Gly Ile
        195                 200                 205

Phe Thr Cys Phe Asp Ile Phe Phe Tyr Asp Pro Gly Val Thr Leu Val
    210                 215                 220
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Lys Asp Phe His Val Asp Thr Ile Leu Phe Pro Thr Ala Trp Met Asn
225 230 235 240

Val Leu Pro Leu Leu Thr Ala Ile Glu Phe His Ser Ala Trp Ala Met
245 250 255

Gly Met Gly Val Asn Leu Leu Val Ala Asn Thr His His Val Ser Leu
260 265 270

Asn Met Thr Gly Ser Gly Ile Tyr Ala Pro Asn Gly Pro Lys Val Tyr
275 280 285

His Tyr Asp Met Lys Thr Glu Leu Gly Lys Leu Leu Leu Ser Glu Val
290 295 300

Asp Ser His Pro Leu Ser Ser Leu Ala Tyr Pro Thr Ala Val Asn Trp
305 310 315 320

Asn Ala Tyr Ala Thr Thr Ile Lys Pro Phe Pro Val Gln Lys Asn Thr
325 330 335

Phe Arg Gly Phe Ile Ser Arg Asp Gly Phe Asn Phe Thr Glu Leu Phe
340 345 350

Glu Asn Ala Gly Asn Leu Thr Val Cys Gln Lys Glu Leu Cys Cys His
355 360 365

Leu Ser Tyr Arg Met Leu Gln Lys Glu Glu Asn Glu Val Tyr Val Leu
370 375 380

Gly Ala Phe Thr Gly Leu His Gly Arg Arg Arg Arg Glu Tyr Trp Gln
385 390 395 400

Val Cys Thr Met Leu Lys Cys Lys Thr Thr Asn Leu Thr Thr Cys Gly
405 410 415

Arg Pro Val Glu Thr Ala Ser Thr Arg Phe Glu Met Phe Ser Leu Ser
420 425 430

Gly Thr Phe Gly Thr Glu Tyr Val Phe Pro Glu Val Leu Leu Thr Glu
435 440 445

Ile His Leu Ser Pro Gly Lys Phe Glu Val Leu Lys Asp Gly Arg Leu
450 455 460

Val Asn Lys Asn Gly Ser Ser Gly Pro Ile Leu Thr Val Ser Leu Phe
465 470 475 480

Gly Arg Trp Tyr Thr Lys Asp Ser Leu Tyr Ser Ser Cys Gly Thr Ser
485 490 495

Asn Ser Ala Ile Thr Tyr Leu Leu Ile Phe Ile Leu Leu Met Ile Ile
500 505 510

Ala Leu Gln Asn Ile Val Met Leu
515 520

<210> 3958

<211> 37
<212> PRT
<213> Homo sapiens

<400> 3958
Met Gly Leu Pro Val Ser Trp Ala Pro Pro Ala Leu Trp Val Leu Gly
1 5 10 15

Cys Cys Ala Leu Leu Leu Ser Leu Trp Ala Leu Cys Thr Ala Cys Arg
20 25 30

Arg Pro Arg Thr Leu
35

<210> 3959
<211> 35
<212> PRT
<213> Homo sapiens

<400> 3959
Met Asn Val Ser Ile Phe Leu Val Gly Leu Phe Leu Ile Ile Glu Leu
1 5 10 15

Tyr Ile Ala Gly Ser Leu Thr Thr Ser Leu Glu Phe Gln Gln Glu Ala
20 25 30

Phe Ala Arg
35

<210> 3960
<211> 47
<212> PRT
<213> Homo sapiens

<400> 3960
Met Leu Phe Leu Cys Asn Asn Trp Leu Val Ser Leu Phe Cys Ser Leu
1 5 10 15

Leu Ile Gly Ser Cys Phe Leu Cys Val Gln Asn Lys Asn Lys Phe Gly
20 25 30

Gln Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
35 40 45

<210> 3961
<211> 46
<212> PRT
<213> Homo sapiens

<400> 3961
Met Pro Glu Pro Leu Leu Gly Leu Ser Val Val Phe Thr Leu Val Leu
1 5 10 15

Gly His Pro Ser Phe Gly Arg Gly Gly Lys Ala Ala Gly Lys Met Glu
20 25 30

Thr Val Gly Gly Val Cys Leu Pro Ile Gly Leu Ala Leu Val
35 40 45

<210> 3962
<211> 19
<212> PRT
<213> Homo sapiens

<400> 3962
Met Ala Trp Val Gly Leu Ala Ser Leu Gly Val Cys Cys Pro Ile Ser
1 5 10 15

Arg Val Pro

<210> 3963
<211> 34
<212> PRT
<213> Homo sapiens

<400> 3963
Met Cys Ile Leu Val Leu Val Leu Ser Val Ile Ile Leu Ile Leu Gly
1 5 10 15

Leu Ile Ile Trp Leu Val Tyr Lys Thr Asn Asp Cys Leu Arg Ser Phe
20 25 30

Ser Arg

<210> 3964
<211> 67
<212> PRT
<213> Homo sapiens

<400> 3964
Pro Phe Leu Gly Trp Asn Gln Gly Ala Trp Val Gly Val Ala Ala Gly
1 5 10 15

Asn Met Pro Pro Cys Leu Ala Leu Cys Arg Asn Pro Trp Lys Ile Arg
20 25 30

Pro Ser Ser Leu Pro Leu Ser Ala Ser Cys Thr Arg Ala Arg Ser Arg
35 40 45

Met Ser Ala Leu Pro Gln Pro Ala Pro Ser Gly Val Phe Ala Ser Ser
50 55 60

Asp Gly Arg
65

<210> 3965

<211> 257
<212> PRT
<213> Homo sapiens

<400> 3965

```
Met Asp Phe Ile Gln His Leu Gly Val Cys Cys Leu Val Ala Leu Ile
  1               5                  10                  15

Ser Val Gly Leu Leu Ser Val Ala Ala Cys Trp Phe Leu Pro Ser Ile
             20                  25                  30

Ile Ala Ala Ala Ala Ser Trp Ile Ile Thr Cys Val Leu Leu Cys Cys
         35                  40                  45

Ser Lys His Ala Arg Cys Phe Ile Leu Leu Val Phe Leu Ser Cys Gly
     50                  55                  60

Leu Arg Glu Gly Arg Asn Ala Leu Ile Ala Ala Gly Thr Gly Ile Val
 65                  70                  75                  80

Ile Leu Gly His Val Glu Asn Ile Phe His Asn Phe Lys Gly Leu Leu
                 85                  90                  95

Asp Gly Met Thr Cys Asn Leu Arg Ala Lys Ser Phe Ser Ile His Phe
            100                 105                 110

Pro Leu Leu Lys Lys Tyr Ile Glu Ala Ile Gln Trp Ile Tyr Gly Leu
        115                 120                 125

Ala Thr Pro Leu Ser Val Phe Asp Asp Leu Val Ser Trp Asn Gln Thr
    130                 135                 140

Leu Ala Val Ser Leu Phe Ser Pro Ser His Val Leu Glu Ala Gln Leu
145                 150                 155                 160

Asn Asp Ser Lys Gly Glu Val Leu Ser Val Leu Tyr Gln Met Ala Thr
                165                 170                 175

Thr Thr Glu Val Leu Ser Ser Leu Gly Gln Lys Leu Leu Ala Phe Ala
            180                 185                 190

Gly Leu Ser Leu Val Leu Leu Gly Thr Gly Leu Phe Met Lys Arg Phe
        195                 200                 205

Leu Gly Pro Cys Gly Trp Lys Tyr Glu Asn Ile Tyr Ile Thr Arg Gln
    210                 215                 220

Phe Val Gln Phe Asp Glu Arg Glu Arg His Gln Gln Arg Pro Cys Val
225                 230                 235                 240

Leu Pro Leu Asn Lys Glu Glu Arg Arg Lys Phe Ile Ser Gly Phe Gln
                245                 250                 255

Ser
```

<210> 3966
<211> 291
<212> PRT

<213> Homo sapiens

<400> 3966

```
Met Asp Phe Ile Gln His Leu Gly Val Cys Cys Leu Val Ala Leu Ile
 1               5                  10                  15

Ser Val Gly Leu Leu Ser Val Ala Ala Cys Trp Phe Leu Pro Ser Ile
            20                  25                  30

Ile Ala Ala Ala Ala Ser Trp Ile Ile Thr Cys Val Leu Leu Cys Cys
        35                  40                  45

Ser Lys His Ala Arg Cys Phe Ile Leu Leu Val Phe Leu Ser Cys Gly
    50                  55                  60

Leu Arg Glu Gly Arg Asn Ala Leu Ile Ala Ala Gly Thr Gly Ile Val
65                  70                  75                  80

Ile Leu Gly His Val Glu Asn Ile Phe His Asn Phe Lys Gly Leu Leu
                85                  90                  95

Asp Gly Met Thr Cys Asn Leu Arg Ala Lys Ser Phe Ser Ile His Phe
            100                 105                 110

Pro Leu Leu Lys Lys Tyr Ile Glu Ala Ile Gln Trp Ile Tyr Gly Leu
        115                 120                 125

Ala Thr Pro Leu Ser Val Phe Asp Asp Leu Val Ser Trp Asn Gln Thr
    130                 135                 140

Leu Ala Val Ser Leu Phe Ser Pro Ser His Val Leu Glu Ala Gln Leu
145                 150                 155                 160

Asn Asp Ser Lys Gly Glu Val Leu Ser Val Leu Tyr Gln Met Ala Thr
                165                 170                 175

Thr Thr Glu Val Leu Ser Ser Leu Gly Gln Lys Leu Leu Ala Phe Ala
            180                 185                 190

Gly Leu Ser Leu Val Leu Leu Gly Thr Gly Leu Phe Met Lys Arg Phe
        195                 200                 205

Leu Gly Pro Cys Gly Trp Lys Tyr Glu Asn Ile Tyr Ile Thr Arg Gln
    210                 215                 220

Phe Val Gln Phe Asp Glu Arg Glu Arg His Gln Gln Arg Pro Cys Met
225                 230                 235                 240

Leu Pro Leu Asn Lys Glu Glu Arg Arg Lys Asn Lys Glu Leu Lys Ile
                245                 250                 255

Leu Ser Met Ile Leu Pro Leu Ile Tyr Leu Cys Leu Asn Pro Thr Val
            260                 265                 270

Ser Gln Asn Gln Asn Ser Phe Tyr Leu Arg Pro Gly Phe Leu Ser Val
        275                 280                 285

Leu Phe Phe
    290
```

<210> 3967
<211> 23
<212> PRT
<213> Homo sapiens

<400> 3967
Met Tyr Ile Ile Ala Phe Asn Pro Leu Leu Thr Pro Pro Ser Thr Ala
1 5 10 15

Ser Pro Thr Ala Ile Gly Ala
20

<210> 3968
<211> 64
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3968
Met Trp Leu Leu Arg Gln Pro Cys Leu Ala Gly Phe Leu Leu Gln Val
1 5 10 15

Leu Glu Gly Arg Val Pro Gln Ser Gln Ala Glu Ala Asp Ser Gly Gly
20 25 30

Leu Gly Ala Gly Gly Xaa Thr Pro Ala Gly Gly Arg Arg Gly Leu Cys
35 40 45

Gln Gln Ser Glu Gln Pro Arg Gly Pro Ile Pro His Ile Leu Gln Val
50 55 60

<210> 3969
<211> 64
<212> PRT
<213> Homo sapiens

<400> 3969
Met Asn Gly Phe Leu Pro Leu Trp Gly Trp Thr Leu Gly Leu Ser Trp
1 5 10 15

Trp Glu Arg Arg Arg Gly Leu Pro Pro Leu Ser Glu Leu Pro Pro Thr
20 25 30

Gly Gly Gln Glu Ser Thr Leu Gln Pro Arg Ala Leu Trp Gly Val His
35 40 45

Ala Trp Gly Leu Trp Val Gly Thr Met Asp Arg Pro Trp Ser Leu Ser
50 55 60

<210> 3970
<211> 23
<212> PRT
<213> Homo sapiens

<400> 3970
Met Leu Phe Leu Lys Val Cys Leu Cys Leu Phe Lys Ser Tyr Ser Met
1 5 10 15

Ala Ser Trp Glu Ala Leu Arg
20

<210> 3971
<211> 82
<212> PRT
<213> Homo sapiens

<400> 3971
Met Gly Leu Leu Leu Trp Gly Cys Phe Cys Thr Arg Gly Leu Pro Arg
1 5 10 15

Cys Ala Pro Cys Leu Pro Pro Thr Trp Leu Ser Leu Leu Leu Gly Arg
20 25 30

Thr Arg Pro His Val Leu Arg Met Leu Gln Lys Cys Gly Pro Trp Arg
35 40 45

Asp Pro Lys Asp Thr Trp His Arg Pro Gly Arg Gly Arg Pro Arg Leu
50 55 60

Val Ser Ala Pro Phe His Gly Gln Thr Gly Leu Leu Ser Cys Thr Ile
65 70 75 80

Asn Leu

<210> 3972
<211> 31
<212> PRT
<213> Homo sapiens

<400> 3972
Met Glu Ser Ile Leu Met Ile Leu Ile Leu Ser Val Pro Thr Trp Arg
1 5 10 15

Met His Leu Leu Leu Leu Glu Val Ser Ala Val Ala Gly Leu Leu
20 25 30

<210> 3973
<211> 11

<212> PRT
<213> Homo sapiens

<400> 3973
Gln Thr Ala Leu Arg Arg Pro His Gly Pro Arg
1 5 10

<210> 3974
<211> 49
<212> PRT
<213> Homo sapiens

<400> 3974
Arg Met Leu Leu Leu Phe Ile Tyr Leu Leu Val Asp Gly His Leu Gly
1 5 10 15

Trp Phe His Ile Phe Ala Ile Ala Asn Cys Ala Ala Ile Asn Met His
20 25 30

Val Gln Val Ser Phe Ser Asn Asn Asp Phe Phe Leu Leu Thr Pro Cys
35 40 45

Ser

<210> 3975
<211> 26
<212> PRT
<213> Homo sapiens

<400> 3975
Met Phe Thr Leu Ser Leu Leu Phe Lys Leu Phe Arg Ile Ser Phe Ser
1 5 10 15

Leu Pro Phe Arg Arg Ser Val Phe Thr Leu
20 25

<210> 3976
<211> 86
<212> PRT
<213> Homo sapiens

<400> 3976
Met Leu Ser Tyr Ser Ser Ala Met Phe Ser Gln Lys Lys Leu Ile Thr
1 5 10 15

Ser Ser Leu Leu Trp Leu Leu Gln Leu Gln Glu Val Pro Ala Met Ser
20 25 30

His Val Val Phe Asp Gln Trp Ser Pro Val Pro Gly Gln Arg Arg Gln
35 40 45

Leu Tyr Asn Val Ile Cys Val Val Lys Ile Leu Pro Leu Thr Gln Asn
50 55 60

Gly Thr Val Gln Ser Leu Ser Val Tyr Met Glu Lys Ser His Ala Pro
 65   70   75   80

Gly Leu Thr Gln Lys Lys
                 85

<210> 3977
<211> 58
<212> PRT
<213> Homo sapiens

<400> 3977
Leu Arg Phe Leu Leu Leu His Ser Ser Leu Gly Ile Ser Val Cys Phe
  1   5   10   15

His Ala Ala Asp Lys Asp Ile Pro Glu Thr Gly Lys Lys Lys Arg Phe
             20   25   30

Asn Trp Thr Tyr Ser Ser Arg Val Ser Gly Arg Pro Pro Cys Pro Arg
         35   40   45

Ser Leu Val Asn Ala Leu Thr Leu Thr Gly
     50   55

<210> 3978
<211> 74
<212> PRT
<213> Homo sapiens

<400> 3978
Met Thr Val Ser Leu Val Ser Arg Ser Ser Val Phe Asn Thr Cys Ile
  1   5   10   15

Tyr Asn Ala Gln Ala Arg Arg Pro Cys His Gln Pro Asn Val Ile Thr
             20   25   30

Ala Gly Arg Trp Lys Met Ser Leu Lys Gln Ser Leu Cys Ala Leu Phe
         35   40   45

Val Leu Ser Leu Ile Gln Ser Asn Leu Lys Pro Gln Thr Asp Leu Pro
     50   55   60

Pro Val Leu Phe Ser Gly Gly Phe Ser Pro
 65   70

<210> 3979
<211> 82
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (71)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3979
Met Lys Trp Arg Cys Leu Met Cys Phe Thr Leu Ala Cys Leu Thr Val
1 5 10 15

Phe Tyr Leu Thr Val Asn Ser Ala Val Phe Tyr Cys Glu Arg Lys Pro
20 25 30

Gln Cys Leu Ser Ser Leu Arg Asn Trp Gly Glu Arg Trp Thr Thr Thr
35 40 45

Val Val His Phe Leu Ser Val Leu Gly Glu Cys His Thr Phe Pro Ser
50 55 60

Gln Ser Lys Arg Asn Leu Xaa Glu Ile Leu Arg Glu Thr Val Ser Pro
65 70 75 80

Gln Val

<210> 3980
<211> 44
<212> PRT
<213> Homo sapiens

<400> 3980
Lys Phe Met Leu Cys Val Ser Met Val Cys Phe Ile Leu Leu Leu Ser
1 5 10 15

Ile Leu Leu Tyr Glu Tyr Thr Lys Ile Cys Val Ser Val His Arg Leu
20 25 30

Ile Asp Ile Trp Val Ile Thr Thr Leu Lys Leu Leu
35 40

<210> 3981
<211> 32
<212> PRT
<213> Homo sapiens

<400> 3981
Met Val Arg Ile Leu Ser Met Val Val Ile Ile Ile Ile Ile Ile Asn
1 5 10 15

Gly Ser Pro Leu Cys Val Leu Ser Tyr Phe Ile Phe Thr Ile Phe Thr
20 25 30

<210> 3982
<211> 28
<212> PRT
<213> Homo sapiens

<400> 3982

```
Met Met Gly Ile Trp Gly Ile Glu Arg Ser Trp Val Gly Asn Ile Ala
 1               5                  10                  15

Trp Val Ile Ser Leu Leu Thr Leu Tyr Cys Lys Val
            20                  25
```

<210> 3983
<211> 137
<212> PRT
<213> Homo sapiens

<400> 3983

```
Ile Thr His His Ala Val Ile Leu Phe Val Leu Val Pro Val Ala Gln
 1               5                  10                  15

Arg Leu Arg Gly Asp Leu Gly Asp Phe Phe Val Gly Cys Ile Phe Thr
            20                  25                  30

Ala Glu Leu Ser Thr Pro Phe Val Ser Leu Gly Arg Val Leu Ile Gln
        35                  40                  45

Leu Lys Gln Gln His Thr Leu Leu Tyr Lys Val Asn Gly Ile Leu Thr
    50                  55                  60

Leu Ala Thr Phe Leu Ser Cys Arg Ile Leu Leu Phe Pro Phe Met Tyr
65                  70                  75                  80

Trp Ser Tyr Gly Arg Gln Gln Gly Leu Ser Leu Leu Gln Val Pro Phe
                85                  90                  95

Ser Ile Pro Phe Tyr Cys Asn Val Ala Asn Ala Phe Leu Val Ala Pro
            100                 105                 110

Gln Ile Tyr Trp Phe Cys Leu Leu Cys Arg Lys Ala Val Arg Leu Phe
        115                 120                 125

Asp Thr Pro Gln Ala Lys Lys Asp Gly
    130                 135
```

<210> 3984
<211> 42
<212> PRT
<213> Homo sapiens

<400> 3984

```
Leu Phe Leu Phe Phe Leu Ser Pro Ser Asp Phe Ser Ala Tyr His Leu
 1               5                  10                  15

His Phe Ser Pro Leu Thr His Ser Glu Leu Ile Glu Ser Cys Phe Cys
            20                  25                  30

His His His Thr Thr Glu Thr Gly His Arg
        35                  40
```

<210> 3985

<211> 38
<212> PRT
<213> Homo sapiens

<400> 3985
Met Val Ile Phe Cys Ser Leu Leu Ser Leu Ile Ala Tyr Ser Ile Met
1 5 10 15

Ala Phe Leu Lys Lys Asn Leu Cys Ile Phe Ser His Pro Tyr Leu Phe
20 25 30

Ala Tyr Phe Ser Asn His
35

<210> 3986
<211> 32
<212> PRT
<213> Homo sapiens

<400> 3986
Met Tyr Tyr Ile Ser Thr Phe Leu Ile Leu Thr Trp Ala Tyr Ala Leu
1 5 10 15

Ser Leu Ile Val Ile Asn Leu Cys Cys Ser Ser Ile Cys Asn Thr Leu
20 25 30

<210> 3987
<211> 42
<212> PRT
<213> Homo sapiens

<400> 3987
Met Asn Ser Asn Arg Leu Glu Leu Leu Leu Tyr Ile Thr Gln Leu Ala
1 5 10 15

Leu Cys Thr Cys Arg Phe Cys Ile Leu Gly Phe Asn Cys Gly Ser Lys
20 25 30

Ile Phe Gly Gly Lys Lys Ala Ile Gln Gln
35 40

<210> 3988
<211> 36
<212> PRT
<213> Homo sapiens

<400> 3988
Met Gly Ser Ile Ala Gly Thr Gln Gly Cys Arg Pro Arg Arg Leu Phe
1 5 10 15

Phe Leu Phe Ser Leu Cys Arg Leu Ile Ser Ser Leu Ser Val Ile Trp
20 25 30

Phe Pro Cys Pro
35

<210> 3989
<211> 50
<212> PRT
<213> Homo sapiens

<400> 3989
Met Trp Asn Ile Phe Ser Tyr Val Cys Trp Leu Leu Val Cys Leu Leu
1 5 10 15

Leu Arg Ser Val Cys Ser Cys Leu Leu Pro Ser Phe Lys Trp Asp Leu
20 25 30

Phe Phe Ala Cys Ser Leu Val His Thr Phe Phe Phe Phe Ile Asp Ser
35 40 45

Gly Cys
50

<210> 3990
<211> 20
<212> PRT
<213> Homo sapiens

<400> 3990
Ser Gly Glu Gly Ala Trp Val Pro Gly Ala Ser Leu Ala Leu His Gln
1 5 10 15

Asp Pro Val Glu
20

<210> 3991
<211> 11
<212> PRT
<213> Homo sapiens

<400> 3991
Met Val Leu Phe Leu Leu Arg Phe Leu Phe Leu
1 5 10

<210> 3992
<211> 15
<212> PRT
<213> Homo sapiens

<400> 3992
Met Glu Thr His Arg Gln Gln Leu Arg Lys Met Val Cys Gln Gln
1 5 10 15

<210> 3993
<211> 36
<212> PRT
<213> Homo sapiens

<400> 3993
Met Leu Ser Asp Trp Leu Ile Ile Val Leu Gln Cys Tyr Val Gln Val
1 5 10 15

Thr Leu Ile Leu Leu Ile Val Val Pro Arg Cys Lys Ser Ser Asp Ala
20 25 30

Asp Ile Leu Leu
35

<210> 3994
<211> 26
<212> PRT
<213> Homo sapiens

<400> 3994
Met Thr Ser Arg Trp Cys His Leu Lys Glu Pro Arg Phe Leu Phe Ser
1 5 10 15

Val Cys Gly Phe Ile Leu Leu Val Leu Leu
20 25

<210> 3995
<211> 38
<212> PRT
<213> Homo sapiens

<400> 3995
Met Ile Ser Cys Leu Asn Ile Leu Arg Val Leu Tyr Leu Leu Trp Gly
1 5 10 15

Leu Leu Ala Leu Ser Ala Leu Thr Gln Ile Ile Gly Tyr Ile Thr Trp
20 25 30

Leu Met Phe Leu Tyr Thr
35

<210> 3996
<211> 58
<212> PRT
<213> Homo sapiens

<400> 3996
Met Leu Arg Gln Glu Ile Cys Leu Ile Arg Thr Gly Ser Ser Val Leu
1 5 10 15

Ser Val Thr Leu Val Ala Leu Leu Leu Gln Val Ile Thr Leu Val Met
20 25 30

Tyr Met Thr Leu Arg Ser Lys Arg Gly Leu Leu Thr Met Thr Trp Arg
35 40 45

Tyr Gln Lys Ser Lys Arg Leu Pro Cys Lys
50 55

<210> 3997
<211> 52
<212> PRT
<213> Homo sapiens

<400> 3997
Thr Gln Ser Leu Asp Pro Asp Glu Thr Ser Pro Pro Pro His Leu Cys
1 5 10 15

Pro His Gln Asp Lys Glu Leu Leu Pro Val Phe Pro Leu Gly His Gly
20 25 30

Ala Ser Cys Pro Pro Ser Ser Pro Ala Arg Asp Pro Lys Ala Gly Thr
35 40 45

Thr Pro Pro Ala
50

<210> 3998
<211> 23
<212> PRT
<213> Homo sapiens

<400> 3998
Met Leu Leu Leu Gln Ser Leu Phe Phe Ser His Glu Leu Gly Val Gly
1 5 10 15

Trp Gly Arg Glu Arg Glu Gly
20

<210> 3999
<211> 21
<212> PRT
<213> Homo sapiens

<400> 3999
Met Pro Cys Phe Ser Leu Leu Ser Leu Pro Leu Trp Asp Pro Leu Val
1 5 10 15

Ile Leu Val Phe Cys
20

<210> 4000
<211> 44
<212> PRT
<213> Homo sapiens

<400> 4000
Met Pro Arg Thr Ser Thr Phe Gln Gln Trp Leu Ser Ser Pro Thr Phe
1 5 10 15

Trp Trp Leu Val Leu Arg Trp Gly Pro Arg Ile Gly Ser Pro Gln Thr
20 25 30

Ser Trp Gly Cys Lys Arg Ala Gln Pro Trp Pro Gly
35 40

<210> 4001
<211> 15
<212> PRT
<213> Homo sapiens

<400> 4001
Met Leu Leu Arg Val Phe Leu Val Val Val Thr Gln Cys Gly Cys
1 5 10 15

<210> 4002
<211> 33
<212> PRT
<213> Homo sapiens

<400> 4002
Met Ser Asp Arg Trp Ser Pro Phe Ile Pro Phe Leu Leu Leu Ala Pro
1 5 10 15

Val Ser Ser Gly Ser Gly His Leu Thr Phe Ser Cys Pro Ala Gly Ser
20 25 30

Ala

<210> 4003
<211> 52
<212> PRT
<213> Homo sapiens

<400> 4003
Met Ala Met Ala Met Ala Arg Ile Thr Pro Pro Thr Met Gly Met Val
1 5 10 15

Trp Pro Leu His Thr Leu Gly Lys Cys Leu Ala Leu Thr Gln Met Gln
20 25 30

Thr Leu Val Pro Arg Val Ala Pro Val Pro Ile Pro Phe Tyr Pro Glu
35 40 45

Leu Thr Ser Ala
50

<210> 4004

<211> 39
<212> PRT
<213> Homo sapiens

<400> 4004
Met Glu Phe Thr Asn Leu Val Ile Leu Thr Met Phe Leu Lys Leu Gly
1 5 10 15

Leu Ser Phe Pro Phe Trp Phe Val Ala Tyr Asp Val Gly Leu Leu Gly
20 25 30

Ile Lys Ser Ser Lys Asn Ser
35

<210> 4005
<211> 36
<212> PRT
<213> Homo sapiens

<400> 4005
Met Leu Leu Leu Tyr Leu Ser Ser Phe Thr Phe Leu Glu Ser Pro Thr
1 5 10 15

Thr Gly Gln Arg Leu Lys Gly Thr Asp Leu Leu Cys Arg Met Ala Trp
20 25 30

Pro Pro Leu Lys
35

<210> 4006
<211> 35
<212> PRT
<213> Homo sapiens

<400> 4006
Met Leu Ser Ile Met Leu Cys Phe Leu Trp Asn Met Ile Ile Leu Leu
1 5 10 15

Val Ala Ser Ser Ala Tyr Ser Gly Cys Asp Leu Ala Leu Pro Gly Thr
20 25 30

Ser Ala Leu
35

<210> 4007
<211> 38
<212> PRT
<213> Homo sapiens

<400> 4007
Met Gly Lys Ser Val Leu Leu Gly Ser Ile Tyr Tyr Leu Leu Leu Ser
1 5 10 15

Ser His Leu Cys Lys Ser Ala Ile Ser Thr Lys Met Cys Asp Arg Arg
20 25 30

Ser Gln Arg Ile Leu Leu
35

<210> 4008
<211> 41
<212> PRT
<213> Homo sapiens

<400> 4008
Met Tyr Met Lys Met Met Phe Met Leu Phe Ile Ile Leu Pro Phe Ile
1 5 10 15

Ile Ser Phe Phe Ile Val Leu Ile Ala Met Ser Phe Ser Ser Leu Ile
20 25 30

Phe Phe Pro Gln Cys Leu Ile Cys His
35 40

<210> 4009
<211> 24
<212> PRT
<213> Homo sapiens

<400> 4009
Met Ala Ala Ser Ala Leu Leu Leu Cys Val Val Thr Leu Ile Leu Phe
1 5 10 15

Leu Val Leu His Tyr Ile Val Ser
20

<210> 4010
<211> 8
<212> PRT
<213> Homo sapiens

<400> 4010
Met Ser Asn Val Gln Leu Gln Arg
1 5

<210> 4011
<211> 24
<212> PRT
<213> Homo sapiens

<400> 4011
Ser Phe Phe Val Phe Leu Gly Asp Leu Tyr Phe Phe Phe Gly Glu Met
1 5 10 15

Ser Ile Pro Ile Leu Ala His Phe
20

<210> 4012
<211> 16
<212> PRT
<213> Homo sapiens

<400> 4012
Gly Pro Cys Asp Pro Ile Ser Trp Leu Leu Arg Leu Leu Ser Leu Phe
1 5 10 15

<210> 4013
<211> 65
<212> PRT
<213> Homo sapiens

<400> 4013
Gly Ser Phe Pro Ser Pro Lys His Arg Gln Arg Gly Gly Glu Gln Phe
1 5 10 15

Leu Val Leu Phe Leu Phe Leu Lys Trp Cys Leu Tyr Leu Gln Pro Pro
20 25 30

Gly Gly Leu Pro Trp Pro His Phe Ser Ala Pro Pro Arg His Arg His
35 40 45

Pro Ser Thr Leu Leu His Val Thr Arg Lys Met Pro Phe Ala Glu Cys
50 55 60

Thr
65

<210> 4014
<211> 90
<212> PRT
<213> Homo sapiens

<400> 4014
Met Cys Pro Val Ser Gln Phe Pro Gly Ser Ser Ser Val Cys Cys Pro
1 5 10 15

Phe Ser Ser Ser Gly Ser Ile Val Arg Glu Pro Arg Met Glu Ala Lys
20 25 30

Cys Thr Gly His Trp Leu Phe Phe Gln Cys Pro Ser Asp Ser Pro Cys
35 40 45

Pro Gly Gly Leu Val Pro Ser Leu Ser Val Trp Cys Leu Phe Tyr Lys
50 55 60

Leu Val Met Thr Ser Gly Asn Gly Pro Gly Phe Gln Ile Ala Ile Pro
65 70 75 80

Gly Asp Ile Leu Ile Leu Trp Phe Lys Pro
85 90

<210> 4015
<211> 33
<212> PRT
<213> Homo sapiens

<400> 4015
Met Tyr Tyr Phe Ile Phe Leu Phe Phe Ser Tyr Val Leu Cys Phe Arg
1 5 10 15

Ile Phe Leu Glu Ala Ser Ser Lys Ser Cys Phe Val Gly Asn Lys Gln
20 25 30

Ser

<210> 4016
<211> 40
<212> PRT
<213> Homo sapiens

<400> 4016
Ile Asp Phe Phe Leu Phe Pro Thr Ile Ser Ser Ala Ser Pro Phe Ser
1 5 10 15

Ser Phe Lys Ile Asn Pro Glu Ser Asp His Cys Gly Leu Asn His Tyr
20 25 30

Tyr Ile Leu Pro Glu Leu Leu Gln
35 40

<210> 4017
<211> 35
<212> PRT
<213> Homo sapiens

<400> 4017
Met Gly Trp Val Ile Ala Leu Cys Ser Gln Leu Ser Arg Leu Leu Thr
1 5 10 15

Leu Phe Leu Leu Arg Leu Phe Leu Asn Arg Lys Ile Arg Ile Leu Ser
20 25 30

Phe Gln Gln
35

<210> 4018
<211> 34
<212> PRT
<213> Homo sapiens

<400> 4018
Met Gly Leu Leu Leu Trp Leu Ser Val Gly His Thr Ser Pro Gln Lys

1 5 10 15

Ala Pro Ala Lys Glu Leu Arg Phe Trp Leu Gly Lys Asn Ile Thr Pro
20 25 30

Leu Gln

<210> 4019
<211> 15
<212> PRT
<213> Homo sapiens

<400> 4019
Met Pro Ala Leu Ile Asp Gly Ala Glu Arg His Cys Ile Pro Ile
1 5 10 15

<210> 4020
<211> 37
<212> PRT
<213> Homo sapiens

<400> 4020
Met Leu Leu Ile Phe Thr Phe Ser Ala Leu Val Leu Ser Tyr Pro Leu
1 5 10 15

Leu Ile Leu Gly Asp Trp Val Glu Met Ala Ile Glu His His Thr Leu
20 25 30

Leu Thr Lys Thr Ile
35

<210> 4021
<211> 30
<212> PRT
<213> Homo sapiens

<400> 4021
Met Ala Leu Val Gly Leu Leu Ser Ala Gly Val Pro Gly Val Ser Leu
1 5 10 15

Cys Val Gln Ile Phe Ser Tyr Lys Asp Thr Gly Glu Ile Gly
20 25 30

<210> 4022
<211> 2
<212> PRT
<213> Homo sapiens

<400> 4022
Met Leu
1

<210> 4023
<211> 39
<212> PRT
<213> Homo sapiens

<400> 4023
Met Phe Phe His Phe Gly Val Asn Ile Ala Trp Ile Phe Phe Leu Val
1 5 10 15

Pro Arg Leu Ala Phe Ser Ser Gly Asn Leu Ala Val Lys Ile Asn Leu
20 25 30

Phe Gln Met Lys Tyr Cys Ile
35

<210> 4024
<211> 12
<212> PRT
<213> Homo sapiens

<400> 4024
Val Leu Leu Leu Pro His Val Leu Ser Gly Gly Leu
1 5 10

<210> 4025
<211> 35
<212> PRT
<213> Homo sapiens

<400> 4025
Leu Ile Val Phe His Ile Ile Phe Ile Pro Trp Ile Thr Leu Leu Cys
1 5 10 15

Val Phe Ile Gly Val Arg Leu Leu Ala Val Ser Tyr Glu Thr Thr Tyr
20 25 30

Tyr Ile Phe
35

<210> 4026
<211> 19
<212> PRT
<213> Homo sapiens

<400> 4026
Met Thr Ser Tyr Cys Ser Phe Asp Leu His Phe Ser Asp Asp Asn Tyr
1 5 10 15

Val Glu His

<210> 4027
<211> 34
<212> PRT
<213> Homo sapiens

<400> 4027
Met Asn Phe Trp His Ser Cys Tyr Leu Leu Arg Asn Cys Thr Val Cys
1 5 10 15

Phe Leu Cys Ser Ile Phe Phe Phe Phe Pro Gly Met Arg Met Tyr Leu
20 25 30

Ser Ser

<210> 4028
<211> 34
<212> PRT
<213> Homo sapiens

<400> 4028
Met Lys Leu Thr Leu Gly Thr Ala Gly Ser Leu Phe Pro Gln Ala Leu
1 5 10 15

Tyr Ile Leu Leu Asp Phe Ile Trp Val Asn Phe Ile Asp Gly Ser His
20 25 30

Tyr Ile

<210> 4029
<211> 48
<212> PRT
<213> Homo sapiens

<400> 4029
Met Ala Met Lys Ile Cys Gln Trp Ser Phe Val Cys Gly Leu Leu Gly
1 5 10 15

Thr Val Phe Leu Leu Cys Leu Val Leu Phe Tyr Phe Cys Tyr Ser Arg
20 25 30

Lys Leu Arg Ala His Leu Lys Thr Lys Lys Lys Lys Lys Lys Lys Lys
35 40 45

<210> 4030
<211> 9
<212> PRT
<213> Homo sapiens

<400> 4030
Met Asn Lys Ile Lys Lys Trp Leu Ile

1 5

<210> 4031
<211> 35
<212> PRT
<213> Homo sapiens

<400> 4031
Met Leu Gly Ser Ser Pro Leu Met Leu Ile Trp Ala Thr Thr Phe Val
1 5 10 15

Arg Ser Ser Ile Ala Cys Ser Leu Ser Ala Leu Phe Ser Pro Arg Asn
20 25 30

Thr Phe Leu
35

<210> 4032
<211> 22
<212> PRT
<213> Homo sapiens

<400> 4032
Met Val Arg Leu Ser Ser Leu Gln Thr Leu Leu Cys Pro Asp Ser His
1 5 10 15

Leu Gly His Phe Ile Gln
20

<210> 4033
<211> 20
<212> PRT
<213> Homo sapiens

<400> 4033
Met Glu Leu Phe Phe Phe Trp Leu Thr Ile Leu Leu Phe Pro Thr Val
1 5 10 15

Phe Asn Asn Cys
20

<210> 4034
<211> 41
<212> PRT
<213> Homo sapiens

<400> 4034
Met Gly Asn Val Met Val Thr Phe Ser Arg Leu Ser Cys Leu Ile Pro
1 5 10 15

Ser Ala Ser Ser Leu Leu Cys Leu Asn Ser Cys Thr Gly Cys Leu Val
20 25 30

His Val His Ile Thr Lys Arg Trp Tyr
35 40

<210> 4035
<211> 37
<212> PRT
<213> Homo sapiens

<400> 4035
Met Lys Ser Ala Leu Arg Leu Val Leu Leu Phe Ser Phe His Phe Phe
1 5 10 15

Pro Leu Ile Ile Ser Phe Arg Arg Lys Arg Glu Gly Lys Lys Lys Lys
20 25 30

Lys Ile Arg Asp Leu
35

<210> 4036
<211> 44
<212> PRT
<213> Homo sapiens

<400> 4036
Met Asn His Thr Leu Arg Asn Gln Cys Gly Cys Pro Leu Arg Val Leu
1 5 10 15

Leu Phe Phe Leu Leu Pro Leu Ser Lys Ile Arg Tyr Ser Val Ile Lys
20 25 30

Tyr Ile Ser Ile Lys Val Phe Lys Ser Asp Leu Tyr
35 40

<210> 4037
<211> 40
<212> PRT
<213> Homo sapiens

<400> 4037
Met Ser Lys Gly Leu Arg Lys Glu Ser His Val Phe Phe Leu Leu Phe
1 5 10 15

Ser Asn Leu Val Ile Thr Lys Gln Cys Tyr Gln Cys Ile Thr Tyr Lys
20 25 30

His Phe Ile Ile His Phe His Phe
35 40

<210> 4038
<211> 50
<212> PRT
<213> Homo sapiens

<400> 4038
Met Leu Thr Phe Leu Val Trp Gln Ala Glu Leu Val Leu Leu Pro Thr
1 5 10 15

Leu Pro Phe Pro Ile Val Thr Ile Tyr Arg Thr Ser His Cys Cys Leu
20 25 30

Leu Cys Val Ala Ser Ala Ser Leu Pro Gly Arg Ser Arg Asn Leu Arg
35 40 45

Ile Ser
50

<210> 4039
<211> 42
<212> PRT
<213> Homo sapiens

<400> 4039
Ala Leu Glu Thr Val Val His Phe Ile Leu Leu Ser Leu Leu Val Phe
1 5 10 15

Met Tyr Asp Leu Leu Ile Gly Lys Asn Leu Ile Met Val Ser Leu Met
20 25 30

Thr Asn Gln Phe Val Leu Asn Thr Phe Tyr
35 40

<210> 4040
<211> 17
<212> PRT
<213> Homo sapiens

<400> 4040
Met Val Ile Thr Val Ala Thr Leu Val Ser Leu Leu Ile Asp Ala Ser
1 5 10 15

Gly

<210> 4041
<211> 6
<212> PRT
<213> Homo sapiens

<400> 4041
Ser Thr Ile Leu Cys Phe
1 5

<210> 4042
<211> 33
<212> PRT
<213> Homo sapiens

<400> 4042
Met Glu Ile Ile Tyr Val Thr Leu Leu Ile Asn Val Val Val Val His
1 5 10 15

Ala Cys Asn Ser Trp Arg Ser Leu Arg Gln Met Ser Pro Lys Tyr Ser
20 25 30

Thr

<210> 4043
<211> 20
<212> PRT
<213> Homo sapiens

<400> 4043
Met Thr Arg Gly Thr Leu Pro Pro Thr Leu Leu Gly Leu Ser Phe Leu
1 5 10 15

Ser Ser Gln Leu
20

<210> 4044
<211> 138
<212> PRT
<213> Homo sapiens

<400> 4044
Met Glu Lys Ile Asn Phe Leu Val Glu Ile Gln Trp Leu Thr Lys Pro
1 5 10 15

Ser Leu Ile Leu Ser Gln Pro Ala Gln Leu Arg Pro Val Arg Arg Leu
20 25 30

Pro Ala Thr Ile Thr Arg Leu Ala Val Ala Met Thr Pro Gly Gln Pro
35 40 45

Gly Val Pro Pro Asn Leu Gly Thr Gly Lys Ala Gln Lys Ala Gly Gly
50 55 60

Pro Ser Gln Arg Gly Leu Glu Pro Lys Glu Thr Gln Thr Leu Pro Thr
65 70 75 80

Thr Gly Thr Leu Pro Ser Ala Thr Pro Arg Pro Thr Lys Asp Gln Gln
85 90 95

Leu Val Met Met Met Thr Gly Met Lys Thr Gly Met Gly Pro Asn Pro
100 105 110

Leu Pro Thr Leu Arg Ile Gln Ser Gln Leu Met Gln Ala Ala Leu Ser
115 120 125

Glu Glu Thr Val Val Leu Val Pro His Pro
130 135

<210> 4045
<211> 58
<212> PRT
<213> Homo sapiens

<400> 4045
Met Ile Lys Arg Phe Leu Pro Ser Arg His Arg Pro Gly Val Cys Gln
1 5 10 15

Leu Trp Gly Asn Ser Thr Leu Cys Val Ser Asn Leu His Glu Glu His
20 25 30

His Pro Cys Lys Ser Ser Arg Pro Gly Glu Ala Ser Ser Pro Pro His
35 40 45

Phe Ser Asn Ser Thr Gln Asp Asn Thr Leu
50 55

<210> 4046
<211> 5
<212> PRT
<213> Homo sapiens

<400> 4046
Met Arg Glu Cys Ser
1 5

<210> 4047
<211> 29
<212> PRT
<213> Homo sapiens

<400> 4047
Met Ala Gly Leu Val Leu Val Phe Leu Gly Ile Leu Leu Phe Glu Ala
1 5 10 15

Gln His Ser Gln Arg Asn Pro Gln Asp Ala Ala Gly Arg
20 25

<210> 4048
<211> 3
<212> PRT
<213> Homo sapiens

<400> 4048
Pro Pro Arg
1

<210> 4049
<211> 12
<212> PRT
<213> Homo sapiens

<400> 4049
Met Lys Leu Leu Ile Val Ile Phe Phe His Phe Leu
1 5 10

<210> 4050
<211> 62
<212> PRT
<213> Homo sapiens

<400> 4050
Met Leu Phe Ser Leu Leu His Leu Gly Phe Cys Ala Tyr Glu Ser Asn
1 5 10 15

Leu Ile Leu Phe Gln Met Ala Ile Pro Ile Pro Gly Gln Leu Val Lys
20 25 30

Lys Ser Phe Phe Pro Ser Leu Ile Trp Val Ala Gly Thr Gly Pro Val
35 40 45

Pro Val Ser Ser Gly Ala Tyr Pro Thr Leu Phe Ser Leu Gln
50 55 60

<210> 4051
<211> 4
<212> PRT
<213> Homo sapiens

<400> 4051
Gln Val Trp Leu
1

<210> 4052
<211> 46
<212> PRT
<213> Homo sapiens

<400> 4052
Thr Arg Gln Arg Leu Lys Ala Leu Ser Leu Arg Asn Cys Val Thr Leu
1 5 10 15

Val Thr Leu Phe Asp Phe Ser Leu Leu Lys Phe Ser His Met Gly Met
20 25 30

Val Arg Lys Ile Pro Thr Ser Gln Asp Phe Leu Thr Ile Leu
35 40 45

<210> 4053
<211> 34
<212> PRT
<213> Homo sapiens

<400> 4053

Met Ala Ala Leu Leu Leu Pro Leu His Leu Cys Leu Cys Ala Pro Asp
1 5 10 15

Val Ser Leu Cys Val Ser Lys His His Leu Ile Arg Thr Pro Val Gly
20 25 30

Thr Asp

<210> 4054
<211> 24
<212> PRT
<213> Homo sapiens

<400> 4054
Met Ser Ile Thr Leu Leu Phe Ala Val Leu Thr Leu Leu Cys Asn Gly
1 5 10 15

Thr Pro Glu Leu Ile Leu Pro Val
20

<210> 4055
<211> 35
<212> PRT
<213> Homo sapiens

<400> 4055
Met Lys His Phe Cys Asn Leu Leu Cys Ile Leu Met Phe Cys Asn Gln
1 5 10 15

Gln Ser Val Cys Asp Pro Pro Ser Gln Asn Asn Ala Gly Lys Ile Asn
20 25 30

Leu Arg Tyr
35

<210> 4056
<211> 35
<212> PRT
<213> Homo sapiens

<400> 4056
Met Leu Gly Ser Lys Ala Ser Leu Arg Ile Leu Leu Cys Leu Phe Phe
1 5 10 15

Phe Leu Pro Arg His Ser Ser Ser Asp Asn Cys Cys Pro Ser Cys Thr
20 25 30

Ala Gly Gly
35

<210> 4057
<211> 24

<212> PRT
<213> Homo sapiens

<400> 4057
Phe Trp Trp Val Cys Gly Leu Ala Gly Phe Arg Ser Glu Ala Thr Asp
1 5 10 15

Leu His Gly Glu Cys Cys Ser Ser
20

<210> 4058
<211> 28
<212> PRT
<213> Homo sapiens

<400> 4058
Lys Lys Ile Ser Leu Ser Leu Leu Phe Phe Cys Ser Leu Leu Lys Ser
1 5 10 15

Lys Gln Asn Leu Leu Leu Ser Pro Val Asn Thr Thr
20 25

<210> 4059
<211> 21
<212> PRT
<213> Homo sapiens

<400> 4059
Met Arg Arg Glu Pro Lys Ala Gln Leu Ser Val Ser Cys Leu Ala Ala
1 5 10 15

Met Ser Phe Leu Tyr
20

<210> 4060
<211> 17
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4060
Gly Val Val Ala Val Val Val Phe Xaa Phe Ser Ser Leu Leu Phe Arg
1 5 10 15

Phe

<210> 4061
<211> 10

<212> PRT
<213> Homo sapiens

<400> 4061
Leu Val Leu Phe Val Ile Lys Gly Thr Ile
1 5 10

<210> 4062
<211> 28
<212> PRT
<213> Homo sapiens

<400> 4062
Met Phe Gly Trp Cys His His Leu Phe Phe Cys Met Leu Phe Ser Leu
1 5 10 15

Trp Arg Gly His Leu Cys Val Tyr Arg Arg Lys Met
20 25

<210> 4063
<211> 31
<212> PRT
<213> Homo sapiens

<400> 4063
Met Arg Gly Ala Trp Cys Val Cys Leu Cys Val Cys Val Tyr Gly Tyr
1 5 10 15

Asn Ser Phe Ile Phe Val Ala Ser Glu Arg Leu Cys Arg Ala Leu
20 25 30

<210> 4064
<211> 37
<212> PRT
<213> Homo sapiens

<400> 4064
His Leu Pro Ser Ile Ile Pro Val Leu Val Tyr Val Leu Pro Lys Arg
1 5 10 15

Ala Trp Lys Phe Ile Leu Ala Val Ser Leu Cys Trp Ala Asp Tyr Pro
20 25 30

Ile Lys Val Pro Leu
35

<210> 4065
<211> 177
<212> PRT
<213> Homo sapiens

<400> 4065
Met Gly Leu Met Lys Ala Asn His Val Phe Phe Leu Leu Tyr Leu Leu

1 5 10 15

His Ile Leu Leu Leu Asp Gly Ala Ala Trp Leu Thr Leu Trp Val Phe
20 25 30

Gly Thr Ser Phe Leu Pro Phe Leu Leu Cys Ala Val Leu Leu Ser Ala
35 40 45

Val Gln Ala Gln Ala Gly Trp Leu Gln His Asp Phe Gly His Leu Ser
50 55 60

Val Phe Ser Thr Ser Lys Trp Asn His Leu Leu His His Phe Val Ile
65 70 75 80

Gly His Leu Lys Gly Ala Pro Ala Ser Trp Trp Asn His Met His Phe
85 90 95

Gln His His Ala Lys Pro Asn Cys Phe Arg Lys Asp Pro Asp Ile Asn
100 105 110

Met His Pro Phe Phe Phe Ala Leu Gly Lys Ile Leu Ser Val Glu Leu
115 120 125

Gly Lys Gln Lys Lys Lys Tyr Met Pro Tyr Asn His Gln His Lys Tyr
130 135 140

Phe Phe Leu Ile Gly Pro Pro Ala Leu Leu Pro Leu Tyr Phe Gln Trp
145 150 155 160

Tyr Ile Phe Tyr Phe Val Ile Gln Arg Lys Asn Gly Trp Thr Trp Pro
165 170 175

Gly

<210> 4066
<211> 93
<212> PRT
<213> Homo sapiens

<400> 4066
Met Glu Ser Gln Tyr Val Ser Phe Cys Val Trp Leu Leu Ser Leu Ser
1 5 10 15

Val Leu Phe Ser Lys Ser Ile Arg Ala Ala Pro Tyr Met Ser Ala Leu
20 25 30

Phe His Pro Cys Cys Thr Ile His Glu Arg Phe Ile Pro Ser Met Leu
35 40 45

Cys His Thr Ser Ala Leu Tyr Ser Ile His Ala Val Pro Tyr Ile Ser
50 55 60

Ala Leu Phe His Pro Cys Cys Thr Ile His Glu Arg Phe Ile Pro Ser
65 70 75 80

Val Leu His His Thr Ser Val Leu Tyr Ser Phe Ser Gly
85 90

<210> 4067
<211> 13
<212> PRT
<213> Homo sapiens

<400> 4067
Pro Ser Leu Val Ser Cys Ala Ser Leu Leu Thr Val Met
1 5 10

<210> 4068
<211> 24
<212> PRT
<213> Homo sapiens

<400> 4068
Met His Tyr Ile Leu Lys Tyr Ser Met Thr Gly Phe Cys Pro Cys Leu
1 5 10 15

Trp Ala Phe Ile Phe Leu Met Gly
20

<210> 4069
<211> 27
<212> PRT
<213> Homo sapiens

<400> 4069
Met Cys Ile Ile Leu Leu Val Val Val Phe His Lys Ser Gln Phe Ser
1 5 10 15

Ser Leu Val Val Gly Pro Lys Ser Ser Val Ser
20 25

<210> 4070
<211> 18
<212> PRT
<213> Homo sapiens

<400> 4070
Met Thr Thr Trp Pro Ile Arg Pro Gly Ile Phe Ala Val Trp Leu Tyr
1 5 10 15

Ala Val

<210> 4071
<211> 54
<212> PRT
<213> Homo sapiens

<220>

<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4071
Met His Tyr Val Cys Ser Phe Leu Lys Lys Ile Leu Ile Val Phe Xaa
1 5 10 15

Cys Ser Val Pro Cys Leu Phe Ser Xaa Val Cys Pro Val Thr Leu Ser
20 25 30

Ile Leu Asp Tyr Lys Leu Ile Lys Ala Leu Xaa Met Leu Phe Ser Leu
35 40 45

Phe Leu Asn Leu Asn Ile
50

<210> 4072
<211> 78
<212> PRT
<213> Homo sapiens

<400> 4072
Met Tyr Leu Leu Ser Thr Tyr Leu Leu Trp Cys Ser Thr Leu Val Thr
1 5 10 15

Ala Ser Tyr Leu Asn Phe Pro Arg Val Val Pro Tyr Ser Val Phe Ser
20 25 30

Asp Met Val Phe Gln Ser Val Cys Val Thr Tyr Leu Leu Phe Ile Ser
35 40 45

His Cys Arg Trp Leu Cys Leu Leu His His His Lys Lys Phe Lys Leu
50 55 60

Cys Ala Leu Ile Asn Cys Val Leu Leu Lys Arg Leu Val Gly
65 70 75

<210> 4073
<211> 3
<212> PRT
<213> Homo sapiens

<400> 4073
Leu Asn Leu
1

<210> 4074
<211> 33
<212> PRT
<213> Homo sapiens

<400> 4074
Met Leu Gly Ser Leu Met Ala Arg Leu Asn Met Leu Val Pro Ser Ser
1 5 10 15

Trp Ala Gly Ser Leu Ala Ser Ala Pro Met Ile Ala Thr Ala Ala Ile
20 25 30

Lys

<210> 4075
<211> 37
<212> PRT
<213> Homo sapiens

<400> 4075
Met Ala Asn Leu Pro Leu Ile Leu Ile Met Leu Val Val Gly Met Met
1 5 10 15

Gly Val Thr Ile Asn Thr Leu Ser Thr His Val Gln Thr Leu Phe Gln
20 25 30

Ala Val Phe Ile Tyr
35

<210> 4076
<211> 38
<212> PRT
<213> Homo sapiens

<400> 4076
Met Lys Lys Pro Ser Ala Ser Lys Met His Thr Leu Ile Leu Pro Ile
1 5 10 15

Ala Leu Leu Leu Ala Gly Pro Val Gln Leu Thr His Phe Ser Gly Thr
20 25 30

Ala Ala Asp Ser Leu Leu
35

<210> 4077
<211> 22
<212> PRT
<213> Homo sapiens

<400> 4077
Met Ala Thr His Leu Phe Ile Tyr Leu Leu Val Ala Val Phe Cys Tyr
1 5 10 15

Ser Cys Ser Val Leu Tyr
20

<210> 4078
<211> 12
<212> PRT
<213> Homo sapiens

<400> 4078
Arg Leu Cys Arg Ser Phe Thr Phe Cys Phe Cys Ser
1 5 10

<210> 4079
<211> 53
<212> PRT
<213> Homo sapiens

<400> 4079
Met Arg Ile Val Ser Asp Ser Cys Phe Ser Phe Pro Phe Ser Pro Pro
1 5 10 15

Leu Ser Asp Thr Tyr Thr Pro Arg Pro His His Thr Tyr Ala His Cys
20 25 30

Gly Leu His His Ser His Ser Leu Tyr Phe Val Asn Leu Ala Ala Arg
35 40 45

Lys Phe Leu Ser Pro
50

<210> 4080
<211> 64
<212> PRT
<213> Homo sapiens

<400> 4080
Met Val Phe His Glu Thr Ser Pro Pro Pro Glu Val Ile Phe Leu Ile
1 5 10 15

Leu Val Ile Val Asn Ala Leu Ile Ile Asn Arg Lys Asn Met Phe Leu
20 25 30

Asn Asn Leu Gln Met Arg Thr Gln Met Val Val Phe Cys Leu Thr Glu
35 40 45

Val Asn Gln Ile Leu Trp Phe Lys Tyr Asn Ala Lys Phe Gln Asp Ser
50 55 60

<210> 4081

<211> 38
<212> PRT
<213> Homo sapiens

<400> 4081
Met Thr Ser Ala Arg Lys Ala Cys Phe Cys Phe Met Trp Ser Leu Ile
1 5 10 15

Leu Gln His Ala His Ser Thr Cys Ser Trp Leu Gly Lys Val Pro Thr
20 25 30

Asp Ile Tyr Lys Ala Ser
35

<210> 4082
<211> 21
<212> PRT
<213> Homo sapiens

<400> 4082
Met Ile Leu Phe Phe Cys Trp Ala Pro Ile Cys Phe Phe Leu Cys Asn
1 5 10 15

Glu Ser Leu Lys Glu
20

<210> 4083
<211> 26
<212> PRT
<213> Homo sapiens

<400> 4083
Met Pro Pro Gly Cys Leu Ala Val Thr Glu Cys Leu Phe Leu Leu Ala
1 5 10 15

Tyr Trp Ser His Val Ile Phe Val Thr Trp
20 25

<210> 4084
<211> 10
<212> PRT
<213> Homo sapiens

<400> 4084
Met Ile His Thr Pro His Asn Ser Pro Ile
1 5 10

<210> 4085
<211> 69
<212> PRT
<213> Homo sapiens

<220>

<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4085
Met Ser Glu Arg His Gly Pro Ser Pro Gln Ser Val Leu Leu Ser Leu
1 5 10 15

Trp Phe Val Leu Thr Leu Thr Pro Phe Leu Phe Leu Thr Leu Leu Ser
20 25 30

Cys Met Glu His Thr Ala Pro Ala Pro Phe Gln Ser Ala Trp Gln Thr
35 40 45

Pro Gly Leu Xaa Arg Ser Ser Ser Phe Cys Val Pro Phe Arg Ser Ser
50 55 60

Leu Cys Ser Val Arg
65

<210> 4086
<211> 30
<212> PRT
<213> Homo sapiens

<400> 4086
Met Arg Ala Glu Leu His Gly Leu Val Cys Leu Ser Ala Val Ser Thr
1 5 10 15

Met Thr Ala Ala Val Ser Gly Thr Glu Met Pro Asn Ile Cys
20 25 30

<210> 4087
<211> 31
<212> PRT
<213> Homo sapiens

<400> 4087
Asp Thr Leu Leu Ser Pro Trp Leu Leu Val Trp Tyr Val Arg Leu Pro
1 5 10 15

Ala Val Phe Pro Phe Leu Asn Ser Thr Ala Gly Ser Ser Leu Lys
20 25 30

<210> 4088
<211> 46
<212> PRT
<213> Homo sapiens

<400> 4088
Met Ala Ser Ser Val Thr Thr Ile Ser Leu Leu Leu Leu Ala Ser Phe
1 5 10 15

Thr Ser Leu Ser Cys Val Trp Tyr Phe Met Phe Ser Cys Gln Asp Cys
20 25 30

Val Asp Leu Gln Ile Leu Ser Leu Pro Asp Glu Val Ile Cys
35 40 45

<210> 4089
<211> 34
<212> PRT
<213> Homo sapiens

<400> 4089
Met Ala Ile His Ile Trp Thr Met Tyr Phe Arg Leu Leu His Leu Tyr
1 5 10 15

Thr Leu Val Pro Ser Ala Gly Gly Trp Gly Val Cys Ala Cys Ile Pro
20 25 30

Arg Gln

<210> 4090
<211> 32
<212> PRT
<213> Homo sapiens

<400> 4090
Asp Phe Leu Leu Leu Ile Glu Trp Phe Ile Ser Leu Lys Thr Phe Glu
1 5 10 15

Met Ala His Glu Leu Leu Gly Gln Ile Met Glu Thr Ser Thr Leu Leu
20 25 30

<210> 4091
<211> 33
<212> PRT
<213> Homo sapiens

<400> 4091
Met Pro Ile Leu Ser His Trp Thr Tyr Val Asp Trp Phe Leu Leu Leu
1 5 10 15

Leu Cys Thr Tyr Lys Tyr Ile Tyr Lys Met Asn Ile Val His Ala Phe
20 25 30

Arg

<210> 4092
<211> 26
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4092
Met Xaa Trp Leu Lys Leu Ser Phe Phe Val Trp Ala Pro Val Leu Thr
1 5 10 15

Val Leu Gln Cys Ser Trp Gln Val Glu Trp
20 25

<210> 4093
<211> 32
<212> PRT
<213> Homo sapiens

<400> 4093
Met Asn His Leu Leu Ile Leu Leu Thr Lys His Leu Ile His Thr Gln
1 5 10 15

Met Leu Glu Phe Pro Leu Tyr Lys Cys Ser His Ala Ile Gln Leu Phe
20 25 30

<210> 4094
<211> 119
<212> PRT
<213> Homo sapiens

<400> 4094
Met Cys Tyr Arg Arg Ser Leu Leu Lys Val Leu Met Ser Ile Tyr Leu
1 5 10 15

Leu Tyr Lys Ala Ile Tyr Ala Thr Gly Ser Leu Lys Ile Gln Tyr Cys
20 25 30

Ser Ser Ser Lys Arg Ser Thr Lys Pro Arg Val Ser Ser Leu Ile Ser
35 40 45

Leu Tyr Ser Lys Asn Asp Pro Ser Met Gly Trp Leu Asn Thr Asp Ile
50 55 60

Glu Gly Ile Leu Pro Gln Lys Ile His Leu Phe Val Ala Gly Asn Phe
65 70 75 80

Pro Leu Leu Ser Cys Val Ile Ser Phe Leu Leu Leu Ala Thr Thr His
85 90 95

His Trp Gly Leu Trp Lys Ile Ile Phe Leu Phe Gly Asn Glu Trp Lys
100 105 110

Ser Lys Arg Pro Tyr Tyr Phe
115

<210> 4095
<211> 17
<212> PRT
<213> Homo sapiens

<400> 4095
Met Thr Lys Ser Val Phe Phe Ser Phe Leu Ser Leu Ser Leu Ser Leu
1 5 10 15

Gly

<210> 4096
<211> 56
<212> PRT
<213> Homo sapiens

<400> 4096
Met Trp Lys Glu Asn Ile Ser Phe Ser Phe Phe Ile Lys Ile Gln Val
1 5 10 15

Ile Leu Leu Leu Tyr Glu Gln Phe Phe Leu Ile Gly His Val Ala Lys
20 25 30

Asn Thr Ala Tyr Ser Lys Cys Val Ser Cys Cys His Asp Val Tyr Pro
35 40 45

Tyr Asn Asn Ser Val Thr Lys Val
50 55

<210> 4097
<211> 89
<212> PRT
<213> Homo sapiens

<400> 4097
Leu Gly Leu Trp Pro Ile Trp Tyr Ala Ser Cys Val Cys Met Val Cys
1 5 10 15

Ala Val Ser Leu His Leu Phe Tyr Thr Ser Trp Gly His Gly Pro Gln
20 25 30

Leu Leu Asp Arg Thr Leu Phe Ser Asn Pro Ala Leu Gly Asp Gln Pro
35 40 45

Ser Leu Ala Asn Ile Cys Met Phe Ser Tyr Ser Cys Leu Leu Lys Gly
50 55 60

Pro Thr Gln Arg Leu Asp Phe Leu Leu Pro Leu Cys Val Gly Thr Val
65 70 75 80

Cys Asp Ile Cys Lys Lys Cys Ala Asn
85

<210> 4098
<211> 30
<212> PRT
<213> Homo sapiens

<400> 4098
Met Asn Ala Ser Ile Leu Tyr Leu Cys Leu Val Ser Phe Cys Leu Ser
1 5 10 15

Ile Gln Glu Ala Phe Ile Lys Gly Pro Pro Cys Ala Ser His
20 25 30

<210> 4099
<211> 40
<212> PRT
<213> Homo sapiens

<400> 4099
Leu Arg Val Ala Thr Leu Pro Gly Val Pro Leu Pro Arg Asp Tyr Gly
1 5 10 15

Gln Gly Pro Gly Ala Gly Arg Ala Ala Gly Ala Asp Thr Gly Ala Ala
20 25 30

Pro Glu Ser Gly Asn Ser Ala Ser
35 40

<210> 4100
<211> 36
<212> PRT
<213> Homo sapiens

<400> 4100
Met Met Asp Ala Leu Val Phe Leu Pro Trp Phe Val Ser Ser Thr Arg
1 5 10 15

Ala Cys Ala Pro Arg Ile Cys Cys Asn Leu Ile Leu Val Lys Arg Pro
20 25 30

Ser Val Ser Ser
35

<210> 4101
<211> 40
<212> PRT
<213> Homo sapiens

<400> 4101
Met Asn Phe Ile Ser Val Val Trp Gly Thr Leu Phe Leu Thr Val Gly
1 5 10 15

Glu Ala Ile Met Phe Leu Val Gly Gly Cys Ile Leu Phe Gln Ala Val
20 25 30

Gly Lys Gln Asp Leu Ala Leu His
35 40

<210> 4102
<211> 22
<212> PRT
<213> Homo sapiens

<400> 4102
Met Leu Leu Ser Pro Phe Ile Phe Cys Phe Phe Leu Ile Thr Val Gly
1 5 10 15

Leu Ile Glu Asn Trp Ser
20

<210> 4103
<211> 65
<212> PRT
<213> Homo sapiens

<400> 4103
Met Asn Leu Ser Lys Ala Pro Ala Leu Arg Phe Leu Trp Ser Cys Ser
1 5 10 15

Ser Ile Thr Gly Ala Ala Gly Asn Leu Asn Thr Thr Ser Trp Ser Thr
20 25 30

Arg Leu Trp Pro Asn Gly Arg Arg Lys Lys Leu Ser Ser Gly Trp Ser
35 40 45

Ser Trp Ala Leu Gly His Leu Phe Thr Gly Lys Gly Phe Tyr Leu Asn
50 55 60

Glu
65

<210> 4104
<211> 34
<212> PRT
<213> Homo sapiens

<400> 4104
Met Val Tyr Arg Ile Gln His Ala Asp Thr Trp Trp Asp Leu Leu Leu
1 5 10 15

Leu Gly Phe Cys Tyr Thr Arg Val Ser Val Val Ser Ala Ser Ile Tyr
20 25 30

Val Cys

<210> 4105

<211> 47
<212> PRT
<213> Homo sapiens

<400> 4105
Met Val Tyr Arg Ile Gln His Ala Asp Thr Trp Trp Thr Tyr Cys Tyr
1 5 10 15

Trp Gly Phe Val Ile Leu Gly Phe Gln Trp Ser Val Leu Val Phe Met
20 25 30

Tyr Val Asn Pro Arg Cys Ala Leu Asp Ser Gly Tyr Phe Lys Phe
35 40 45

<210> 4106
<211> 2
<212> PRT
<213> Homo sapiens

<400> 4106
Met Val
1

<210> 4107
<211> 85
<212> PRT
<213> Homo sapiens

<400> 4107
Met Pro Trp Leu Asn Gln Val Leu Arg Ala Ala Ser Leu Ser Pro Arg
1 5 10 15

Cys Leu Val Trp Val Pro Val Leu Gly Phe Leu Gly Pro Gly Leu Pro
20 25 30

Pro Val Leu Gln Thr Phe Pro Thr Gly Asn Pro Gly Tyr His Pro Cys
35 40 45

Pro Pro Glu Glu Leu Pro Pro Pro Gly Leu Ser Pro Val Gly Pro Gly
50 55 60

Gly Ala Gly Gly Thr Thr Gly Thr Cys Gly Ala Trp Glu Cys Leu Ser
65 70 75 80

Cys Cys Ile Gly Pro
85

<210> 4108
<211> 144
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4108
Ser Val Leu Trp Asn Ala Met Ile His Pro Leu Cys Asn Met Thr Leu
1 5 10 15

Lys Gly Val Val Trp Tyr Gln Gly Glu Ser Asn Ile Asn Tyr Asn Thr
20 25 30

Asp Leu Tyr Asn Cys Thr Phe Pro Ala Leu Ile Glu Asp Trp Arg Glu
35 40 45

Thr Phe His Arg Gly Ser Gln Gly Gln Thr Glu Arg Phe Phe Pro Phe
50 55 60

Gly Leu Val Gln Leu Ser Ser Asp Leu Ser Lys Lys Xaa Ser Asp Asp
65 70 75 80

Gly Phe Pro Gln Ile Arg Trp His Gln Thr Ala Asp Phe Gly Tyr Val
85 90 95

Pro Asn Pro Lys Met Pro Asn Thr Phe Met Ala Val Ala Met Asp Leu
100 105 110

Cys Asp Arg Asp Ser Pro Phe Gly Ser Ile His Pro Arg Asp Lys Gln
115 120 125

Asn Cys Gly Leu Ser Ala Ala Phe Gly Gly Pro Cys Ser Gly Leu Trp
130 135 140

<210> 4109
<211> 13
<212> PRT
<213> Homo sapiens

<400> 4109
Met Ser Pro Thr Gln Arg Cys Pro Ile Leu Ser Trp Leu
1 5 10

<210> 4110
<211> 26
<212> PRT
<213> Homo sapiens

<400> 4110
Met Met Met Leu Thr Leu Tyr Tyr Cys Lys Ile Asn Val Val Tyr Ile
1 5 10 15

Ser Leu Cys Thr Ala Ile Phe Cys Phe Trp
20 25

<210> 4111

<211> 40
<212> PRT
<213> Homo sapiens

<400> 4111
Met Ser Ala Ala Leu Leu Ser Ser Ser Leu Cys Trp Leu Arg Thr Leu
1 5 10 15

Ala Tyr Arg Pro Thr Asn Asn Gln Glu Ala Ala Leu Val Gly Thr His
20 25 30

Cys Ser Lys Gln Gly Lys Gln Val
35 40

<210> 4112
<211> 20
<212> PRT
<213> Homo sapiens

<400> 4112
Met His Val Ser Val Phe Val Leu Met Leu Leu Leu Pro Trp Gln Arg
1 5 10 15

Lys Lys Lys Glu
20

<210> 4113
<211> 63
<212> PRT
<213> Homo sapiens

<400> 4113
Met Glu Cys Ser Leu Thr Leu Ala Gly Leu Thr Leu Ala Leu Pro Val
1 5 10 15

Gly Leu Pro Ala Ala Lys Thr Glu Ser Leu His Cys Ser Phe Ser Pro
20 25 30

Val Thr Arg Pro Val Tyr Gly Pro Asn Gly His Ala Ser Glu Asn Leu
35 40 45

Pro Trp Pro Leu Ser Lys Pro Ser Pro Gly Cys Asn Pro Cys Phe
50 55 60

<210> 4114
<211> 6
<212> PRT
<213> Homo sapiens

<400> 4114
Ala Ser Cys Leu Cys Val
1 5

<210> 4115
<211> 33
<212> PRT
<213> Homo sapiens

<400> 4115
Met Leu Arg Phe Cys Met Leu Leu Gln Val Leu Phe His Met Cys Val
1 5 10 15

Cys Gly Val Asp Val Glu Leu Leu Thr Thr Ala Ala Ile Thr Tyr Cys
20 25 30

Ser

<210> 4116
<211> 13
<212> PRT
<213> Homo sapiens

<400> 4116
Phe Phe Phe Phe Phe Phe Ser Gln Arg Leu Thr Lys Leu
1 5 10

<210> 4117
<211> 40
<212> PRT
<213> Homo sapiens

<400> 4117
Met Arg Arg Asn Met Met Asn Pro Leu Thr Phe Met Leu Leu Gly Cys
1 5 10 15

Ala Cys Leu Arg Trp Leu His Leu Asn Ile Leu Thr Arg Ser Ala Lys
20 25 30

Met Leu Arg Arg Ser Thr Val Ala
35 40

<210> 4118
<211> 14
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4118
Met Ser Arg Val Gln Ser Trp Cys Pro Ala Trp Xaa Arg Trp
1 5 10

<210> 4119
<211> 207
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (170)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4119
Ala Arg Ala Ala Val Val Val Pro Ala Glu Trp Ile Lys Asn Trp Glu
1 5 10 15

Lys Ser Gly Arg Gly Glu Phe Leu His Leu Cys Arg Ile Leu Ser Glu
20 25 30

Asn Lys Ser His Asp Ser Ser Thr Tyr Arg Asp Phe Gln Gln Ala Leu
35 40 45

Tyr Glu Leu Ser Tyr His Val Ile Lys Gly Asn Leu Lys His Glu Gln
50 55 60

Ala Ser Asn Val Leu Ser Asp Ile Ser Glu Phe Arg Glu Asp Met Pro
65 70 75 80

Ser Ile Leu Ala Asp Val Phe Cys Ile Leu Asp Ile Glu Thr Asn Cys
85 90 95

Leu Glu Glu Lys Ser Lys Arg Asp Tyr Phe Thr Gln Leu Val Leu Ala
100 105 110

Cys Leu Tyr Leu Val Ser Asp Thr Val Leu Lys Glu Arg Leu Asp Pro
115 120 125

Glu Thr Leu Glu Ser Leu Gly Leu Ile Lys Gln Ser Gln Gln Phe Asn
130 135 140

Gln Lys Ser Val Lys Ile Lys Thr Lys Leu Phe Tyr Lys Gln Gln Lys
145 150 155 160

Phe Asn Leu Leu Arg Glu Glu Asn Glu Xaa Tyr Ala Lys Leu Ile Ala
165 170 175

Glu Leu Gly Gln Asp Leu Ser Gly Ser Ile Thr Ser Asp Leu Ile Leu
180 185 190

Glu Asn Ile Lys Ser Leu Ile Gly Cys Phe Asn Leu Gly Ser Gln
195 200 205

<210> 4120
<211> 33
<212> PRT
<213> Homo sapiens

<400> 4120
Met Leu Leu Leu Thr Met Gly Phe Ile Gln Ile Leu Pro Val Phe Leu
1 5 10 15

```
Leu Val Tyr Phe Phe Tyr Ser Arg Val Gln Ser Lys Ile Pro His Cys
            20                  25                  30

Ile
```

<210> 4121
<211> 8
<212> PRT
<213> Homo sapiens

<400> 4121
```
Met Gly Leu Val Leu Glu Trp Cys
  1               5
```

<210> 4122
<211> 36
<212> PRT
<213> Homo sapiens

<400> 4122
```
Met Phe Leu Leu Ala Ile Leu Leu Pro Val Phe Leu Val Ala Trp Gly
  1               5                  10                  15

Gly Lys Thr Lys Glu Ser Gly Trp Arg Ala Glu Gly Cys Arg Ala Val
            20                  25                  30

Thr Leu Leu Leu
         35
```

<210> 4123
<211> 29
<212> PRT
<213> Homo sapiens

<400> 4123
```
Met Ala Phe Leu Thr Met Arg Ile Leu Phe Phe Ala Tyr Ser Phe Ser
  1               5                  10                  15

Lys Lys His Phe Leu Met Glu Ile Ser Glu His Gly His
            20                  25
```

<210> 4124
<211> 28
<212> PRT
<213> Homo sapiens

<400> 4124
```
Met Pro Val Thr Glu Leu Leu Gln Leu Leu Leu Leu Thr Gln Lys Met
  1               5                  10                  15

Lys Arg Leu Leu Asp Trp Gln Gln Asn Lys Val Glu
            20                  25
```

<210> 4125
<211> 61
<212> PRT
<213> Homo sapiens

<400> 4125
Met Ala Ile Phe Ser Leu Gly Phe Leu Phe Phe Leu Pro Val Ser Arg
1 5 10 15

Asn Ala Leu Phe Ile Pro Leu Pro Asn Leu Ala Ser Ser Val Ser Tyr
20 25 30

Val Phe Leu Ser His Lys Leu Glu Cys Phe Ile Phe Ser Tyr Ile Asn
35 40 45

Phe Pro Phe Phe Leu Ser Thr Leu Lys Lys Val Gln Gln
50 55 60

<210> 4126
<211> 31
<212> PRT
<213> Homo sapiens

<400> 4126
Met Gly Arg Cys Val Trp Met His Phe Ser Cys Ser Cys Cys Phe Ala
1 5 10 15

Phe Pro Asp Ser Thr Ile Pro Arg Gly Arg Gly Trp Ser Ile Leu
20 25 30

<210> 4127
<211> 338
<212> PRT
<213> Homo sapiens

<400> 4127
Met Ala Asn Asp Pro Leu Glu Gly Phe His Glu Val Asn Leu Ala Ser
1 5 10 15

Pro Thr Ser Pro Asp Leu Leu Gly Val Tyr Glu Ser Gly Thr Gln Glu
20 25 30

Gln Thr Thr Ser Pro Ser Val Ile Tyr Arg Pro His Pro Ser Ala Leu
35 40 45

Ser Ser Val Pro Ile Gln Ala Asn Ala Leu Asp Val Ser Glu Leu Pro
50 55 60

Thr Gln Pro Val Tyr Ser Ser Pro Arg Arg Leu Asn Cys Ala Glu Ile
65 70 75 80

Ser Ser Ile Ser Phe His Val Thr Asp Pro Ala Pro Cys Ser Thr Ser
85 90 95

Gly Val Thr Ala Gly Leu Thr Lys Leu Thr Thr Arg Lys Asp Asn Tyr
100 105 110

Asn Ala Glu Arg Glu Phe Leu Gln Gly Ala Thr Ile Thr Glu Ala Cys
115 120 125

Asp Gly Ser Asp Asp Ile Phe Gly Leu Ser Thr Asp Ser Leu Ser Arg
130 135 140

Leu Arg Ser Pro Ser Val Leu Glu Val Arg Glu Lys Gly Tyr Glu Arg
145 150 155 160

Leu Lys Glu Glu Leu Ala Lys Ala Gln Arg Glu Leu Lys Leu Lys Asp
165 170 175

Glu Glu Cys Glu Arg Leu Ser Lys Val Arg Asp Gln Leu Gly Gln Glu
180 185 190

Leu Glu Glu Leu Thr Ala Ser Leu Phe Glu Glu Ala His Lys Met Val
195 200 205

Arg Glu Ala Asn Ile Lys Gln Ala Thr Ala Glu Lys Gln Leu Lys Glu
210 215 220

Ala Gln Gly Lys Ile Asp Val Leu Gln Ala Glu Val Ala Ala Leu Lys
225 230 235 240

Thr Leu Val Leu Ser Ser Ser Pro Thr Ser Pro Thr Gln Glu Pro Leu
245 250 255

Pro Gly Gly Lys Thr Pro Phe Lys Lys Gly His Thr Arg Asn Lys Ser
260 265 270

Thr Ser Ser Ala Met Ser Gly Ser His Gln Asp Leu Ser Val Ile Gln
275 280 285

Pro Ile Val Lys Asp Cys Lys Glu Ala Asp Leu Ser Leu Tyr Asn Glu
290 295 300

Phe Arg Leu Trp Lys Asp Glu Pro Thr Met Asp Arg Thr Val Ser Phe
305 310 315 320

Leu Arg Gln Asn Leu Pro Gly Arg Tyr Leu Ser Met Phe Asn Ile Leu
325 330 335

Lys Lys

<210> 4128
<211> 17
<212> PRT
<213> Homo sapiens

<400> 4128
Met Met Arg Leu Leu Leu Trp Leu Met Ile Pro Trp Lys Ala Ser Met
1 5 10 15

Lys

<210> 4129
<211> 54
<212> PRT
<213> Homo sapiens

<400> 4129
Met Tyr Gly Leu Cys Leu Leu Ser His Met Ser Leu Leu Val Val Thr
1 5 10 15

Trp Ala Leu Gly Val Tyr Val Thr Ser Asp His Leu Ala Glu Ile Leu
20 25 30

Gln Ala Pro Thr Pro Lys His Met Ser Ala Leu Leu Leu Glu His Glu
35 40 45

Asp Asn Val Asn Glu Thr
50

<210> 4130
<211> 28
<212> PRT
<213> Homo sapiens

<400> 4130
Met Trp Met Met Leu Gly Thr Val Leu Gly Pro Gly Ile Met Thr Gly
1 5 10 15

Leu Met Met Met Met Thr Ala Met Arg Ala Arg Val
20 25

<210> 4131
<211> 188
<212> PRT
<213> Homo sapiens

<400> 4131
Gln Gly Ser Arg Glu Leu Leu Leu Ala Leu Ser Trp Leu Leu Ala Arg
1 5 10 15

Gly Pro Val Pro Glu Gln Met Leu Ala Gln Ala Arg Val Pro Leu Gly
20 25 30

Asp Glu Met Thr Val Cys Gln Cys Glu Ala Leu Ala Ser Pro Gly Pro
35 40 45

Pro Ala Pro His Met Glu Ala Glu Gly Pro Val Asp Val Arg His Val
50 55 60

Gln Trp Leu Met Gly Lys Leu Arg Phe Arg Trp Arg Gln Leu Val Ser
65 70 75 80

Ser Gln Gln Glu Gln Cys Ala Leu Leu Ser Lys Ile His Leu Tyr Thr
85 90 95

Arg Gly Cys His Ser Asp Gln Ser Leu Ser His Leu Ser Val Thr Glu
100 105 110

Ala Glu Met Leu Arg Gly Pro Arg Gly Arg Pro Ala Ala Ala Ala Gly
115 120 125

Leu Trp Ser Val Arg Thr Ser Ala Trp Arg Leu Ser Trp Arg Gly Gly
130 135 140

Ala Leu Ser Trp Ser Ser Gly Gly Gly Trp Thr Arg Ser Trp Ala Pro
145 150 155 160

Val Pro Arg Arg Cys Leu Leu Gln Pro His Ser Pro Pro Pro Cys Pro
165 170 175

Gly Ser Pro Ser Ala Gly Val Ala Ser Trp Thr Trp
180 185

<210> 4132
<211> 16
<212> PRT
<213> Homo sapiens

<400> 4132
Leu Thr Gly Val Gly Leu Ser Ser Leu Cys Ser Trp Gln Cys Ser His
1 5 10 15

<210> 4133
<211> 34
<212> PRT
<213> Homo sapiens

<400> 4133
Met His Val Phe His Ser Ser Pro Leu Pro Val Tyr Ser Gly Gly Trp
1 5 10 15

Cys Ser Leu Leu Val Leu Leu Ser Leu Ala Glu Arg Thr Met Gly Ser
20 25 30

Ser Thr

<210> 4134
<211> 12
<212> PRT
<213> Homo sapiens

<400> 4134
His Leu Leu Phe Leu Leu Leu Cys Phe Thr Cys Lys
1 5 10

<210> 4135
<211> 63
<212> PRT
<213> Homo sapiens

<400> 4135
Met Ser Trp Ala Pro Leu Gln Pro Gly Val Cys Ser Cys Gly Val Glu
1 5 10 15

Val Gly Gly Ala Gly Arg Asp Leu Gln Gly Ser Ser Cys Glu Gly Asp
20 25 30

Ser Ala Ala Thr Cys Arg Thr Leu Pro Leu Cys Leu Leu Pro Ala Trp
35 40 45

Asn Met Asp Val Met Ala Gly Ala Gly Thr Ala Val Leu Arg Ala
50 55 60

<210> 4136
<211> 318
<212> PRT
<213> Homo sapiens

<400> 4136
Met Ala Pro Trp Ala Glu Ala Glu His Ser Ala Leu Asn Pro Leu Arg
1 5 10 15

Ala Val Trp Leu Thr Leu Thr Ala Ala Phe Leu Leu Thr Leu Leu Leu
20 25 30

Gln Leu Leu Pro Pro Gly Leu Leu Pro Gly Cys Ala Ile Phe Gln Asp
35 40 45

Leu Ile Arg Tyr Gly Lys Thr Lys Cys Gly Glu Pro Ser Arg Pro Ala
50 55 60

Ala Cys Arg Ala Phe Asp Val Pro Lys Arg Tyr Phe Ser His Phe Tyr
65 70 75 80

Ile Ile Ser Val Leu Trp Asn Gly Phe Leu Leu Trp Cys Leu Thr Gln
85 90 95

Ser Leu Phe Leu Gly Ala Pro Phe Pro Ser Trp Leu His Gly Leu Leu
100 105 110

Arg Ile Leu Gly Ala Ala Gln Phe Gln Gly Gly Glu Leu Ala Leu Ser
115 120 125

Ala Phe Leu Val Leu Val Phe Leu Trp Leu His Ser Leu Arg Arg Leu
130 135 140

Phe Glu Cys Leu Tyr Val Ser Val Phe Ser Asn Val Met Ile His Val
145 150 155 160

Val Gln Tyr Cys Phe Gly Leu Val Tyr Tyr Val Leu Val Gly Leu Thr
165 170 175

Val Leu Ser Gln Val Pro Met Asp Gly Arg Asn Ala Tyr Ile Thr Gly

180 185 190

Lys Asn Leu Leu Met Gln Ala Arg Trp Phe His Ile Leu Gly Met Met
195 200 205

Met Phe Ile Trp Ser Ser Ala His Gln Tyr Lys Cys His Val Ile Leu
210 215 220

Gly Asn Leu Arg Lys Asn Lys Ala Gly Val Val Ile His Cys Asn His
225 230 235 240

Arg Ile Pro Phe Gly Asp Trp Phe Glu Tyr Val Ser Ser Pro Asn Tyr
245 250 255

Leu Ala Glu Leu Met Ile Tyr Val Ser Met Ala Val Thr Phe Gly Phe
260 265 270

His Asn Leu Thr Trp Trp Leu Val Val Thr Asn Val Phe Phe Asn Gln
275 280 285

Ala Leu Ser Ala Phe Leu Ser His Gln Phe Tyr Lys Ser Lys Phe Val
290 295 300

Ser Tyr Pro Lys His Arg Lys Ala Phe Leu Pro Phe Leu Phe
305 310 315

<210> 4137
<211> 36
<212> PRT
<213> Homo sapiens

<400> 4137
Met Asp Leu Lys Gly Arg Thr Lys Cys Ser Gln Tyr Phe Leu Leu Ser
1 5 10 15

Val Val Leu Leu Leu Ser Met Gly Ile Val Gly Ser Ile Ile Glu Thr
20 25 30

Leu Gly Lys Leu
35

<210> 4138
<211> 109
<212> PRT
<213> Homo sapiens

<400> 4138
Met Glu Leu Thr Ile Phe Ile Leu Arg Leu Ala Ile Tyr Ile Leu Thr
1 5 10 15

Phe Pro Leu Tyr Leu Leu Asn Phe Leu Gly Leu Trp Ser Trp Ile Cys
20 25 30

Lys Lys Trp Phe Pro Tyr Phe Leu Val Arg Phe Thr Val Ile Tyr Asn
35 40 45

Glu Gln Met Ala Ser Lys Lys Arg Glu Leu Phe Ser Asn Leu Gln Glu

```
     50                  55                  60

Phe Ala Gly Pro Ser Gly Lys Leu Ser Leu Leu Glu Val Gly Cys Gly
 65                  70                  75                  80

Thr Gly Ala Asn Phe Lys Thr Pro Ser Gln Lys Lys Lys Lys Lys Lys
                 85                  90                  95

Arg Ser Arg Asp Arg Glu Thr Gly Ser His Cys Val Ala
            100                 105
```

<210> 4139
<211> 32
<212> PRT
<213> Homo sapiens

<400> 4139
Met Met Val Ile Ile Val Lys Lys Ile Leu Leu Ile Val Leu Arg Glu
  1   5   10   15

Ser Thr Thr Leu Cys Gln Ile Pro Cys Phe Phe Leu Lys Pro Leu Lys
            20   25   30

<210> 4140
<211> 73
<212> PRT
<213> Homo sapiens

<400> 4140
Met Ala Asn Ile His Trp Ala Ala Gln Thr Val Leu Leu Leu Pro His
  1   5   10   15

Leu Ala Pro Ala Phe Trp Gly Pro Ala Ala His Glu Leu Ile Pro Phe
            20   25   30

Gln Ala Ser Leu Gly Tyr Ile His Pro Leu Trp Leu Leu Thr His Gly
         35   40   45

Val Lys Pro Arg Ala His Phe Ser Tyr Gln Pro Gly Leu Gly His Ile
     50   55   60

Tyr Val Met Leu Leu Pro Ser Phe Thr
 65   70

<210> 4141
<211> 34
<212> PRT
<213> Homo sapiens

<400> 4141
Met Ile Ala Gln Leu Gln Ser Pro Cys Ser Phe Tyr Leu Ile Met Leu
  1   5   10   15

```
Ala Leu Phe Ser Met Ser Val Trp Thr His Ile Lys Thr Pro Ser Cys
             20                  25                  30

Thr Leu
```

<210> 4142
<211> 69
<212> PRT
<213> Homo sapiens

<400> 4142

```
Met Ala Ser Leu Trp Leu Val Ser Trp Asp Leu Leu Leu Leu Leu Ser
  1               5                  10                  15

His Asp Cys Arg Leu Ala Arg Ile Trp Leu Trp Met Ala Trp Thr Gln
             20                  25                  30

Ala Ser Arg Ser Ser Tyr Val Val Ala Ser Lys Cys His Val Trp Pro
         35                  40                  45

Val Ala Asp Thr Ile Ile Lys Leu Leu Val Leu Phe Phe Phe Arg Cys
     50                  55                  60

Phe Phe Leu Leu Ala
 65
```

<210> 4143
<211> 98
<212> PRT
<213> Homo sapiens

<400> 4143

```
Met Leu Ala Met Lys Leu Leu Val Leu Trp Thr Val Val Cys Pro Gln
  1               5                  10                  15

Leu Val Phe Leu Gln Lys Gln Leu His Lys Thr Thr Pro Asn Leu Pro
             20                  25                  30

Gln Ser Ser Gln Glu Leu Val Ser Asp Gln Arg Val Arg Gln Ser Pro
         35                  40                  45

Arg Pro Gln Lys Leu Leu Phe Leu Pro Ala Pro Arg Gln Phe His Arg
     50                  55                  60

Leu Pro Ser Arg Gly Arg Thr Thr Ala Lys Val Ser Ser Ser Thr Ser
 65                  70                  75                  80

Gly Thr Lys Trp Ser Trp Gly Leu Cys Tyr Gly Thr Ser Leu Thr Glu
                 85                  90                  95

Cys Gln
```

<210> 4144
<211> 38
<212> PRT
<213> Homo sapiens

<400> 4144
Met Ser Val Cys Val Leu Tyr Leu Gln Ser Leu Val Ile Val Pro Tyr
1 5 10 15

Ile Thr Cys Lys Gln Ile Leu Tyr Phe Ile Leu Ala Tyr Leu Thr Glu
20 25 30

His Ile Thr Gln Lys Lys
35

<210> 4145
<211> 46
<212> PRT
<213> Homo sapiens

<400> 4145
Met Pro Gly Lys Gln Asp Trp Leu Phe Leu Gln Lys Asn Arg Thr Val
1 5 10 15

Pro Tyr Ile Trp Pro Val Gln Leu Val Tyr Leu Met Pro Met Phe Leu
20 25 30

Leu Arg Val Met His Ala Tyr His Leu Phe Gln Arg Arg Asp
35 40 45

<210> 4146
<211> 38
<212> PRT
<213> Homo sapiens

<400> 4146
Met Cys His His Thr Gln Leu Ser Ser Phe Leu Leu Asn Phe Phe Ser
1 5 10 15

Glu Phe Ser Thr Leu Leu Val Leu Thr Ala Ile Ser Met Phe Cys Phe
20 25 30

Ser Leu Val Thr Tyr Ala
35

<210> 4147
<211> 23
<212> PRT
<213> Homo sapiens

<400> 4147
Met Phe Val Ala Val Phe Leu Phe Cys Phe Val Phe Cys Lys Phe His
1 5 10 15

Ser Ala Ile Ser Val Phe Asn

<210> 4148
<211> 217
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (156)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (196)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (211)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4148

```
Met Leu Pro Val Val Trp Ile Ile Leu Cys Ser Ser Ala Gln Phe Pro
  1               5                  10                  15

His Leu Trp Lys Leu His Ser His Leu Ala Gln Met Ser His Ser Ser
             20                  25                  30

Leu Leu Pro Leu Glu Asn Arg Ser Leu Ser Leu Cys Arg Thr Arg Cys
         35                  40                  45

Ser Asp Pro Leu Ser Cys Thr Leu Ala Pro Phe Leu Pro Pro Thr Val
     50                  55                  60

Ser Leu Ser Thr Leu Ser Ser Ala Leu Gln Ser Ser Phe Cys Ser Phe
 65                  70                  75                  80

Phe Leu Arg Arg Gln Cys Arg Pro Ser Cys Ser Pro Val Pro Gly Val
                 85                  90                  95

His Ile Ser Asn Phe Gly Ser Ala Ser Trp Thr Cys Pro Cys Gly Cys
            100                 105                 110

Leu Ala Ile His Ser Asn Pro Ala Ser Pro Lys Gly Met Ile Leu Pro
        115                 120                 125

Tyr Phe Leu Leu Thr Gln Leu Cys Gly Gln Ser Ser Arg Thr Asn Gly
    130                 135                 140

Ser Lys Leu Pro Pro Asn Thr His Pro Arg Leu Xaa Ala Trp Ala Pro
145                 150                 155                 160

Leu Ala Ser Pro Arg Ala Ala His Ile Lys Val Gln Leu Gly Ser Glu
                165                 170                 175

Leu Leu Gln Glu Ala Ser Pro Ala Leu Leu Cys Arg Arg Thr Leu Leu
            180                 185                 190
```

```
Leu His Thr Xaa Ser Pro Ile Leu Trp Gln Ala Leu Leu Tyr Pro Gln
        195                 200                 205

Ala Ser Xaa Gln Thr Ser Leu Thr Cys
    210                 215
```

<210> 4149
<211> 35
<212> PRT
<213> Homo sapiens

<400> 4149

```
Met Met Ser Thr Ser Gln Thr Ala Pro Leu Trp Cys Leu Trp Pro Pro
  1               5                  10                  15

Ser Arg Met Thr Leu Ala Val Ser Leu Ser Pro Ala Ser Arg Arg Arg
             20                  25                  30

Gly Ser Arg
         35
```

<210> 4150
<211> 40
<212> PRT
<213> Homo sapiens

<400> 4150

```
Met Lys His Phe Leu Phe Phe Ser Phe Leu Ala Phe Leu Ser Leu Tyr
  1               5                  10                  15

Leu Met Tyr Thr Trp Lys Leu Gln Gly Leu Ser Thr Gly His Ala Ser
             20                  25                  30

Leu Tyr Arg Ser His Leu Cys Leu
         35                  40
```

<210> 4151
<211> 35
<212> PRT
<213> Homo sapiens

<400> 4151

```
Met Glu Asn Met Tyr Trp Gly Pro Leu Gly Leu Thr Ser Glu Ile Val
  1               5                  10                  15

Leu Phe Ile Leu Leu His Leu Ala Phe Gln Leu Met Glu Lys Tyr Lys
             20                  25                  30

Phe Lys Phe
         35
```

<210> 4152
<211> 34

<212> PRT
<213> Homo sapiens

<400> 4152
Gln Lys Leu Leu Leu Phe Tyr Ala Gln Ser Asp Ile Glu Ser Phe His
1 5 10 15

Leu Phe Leu Ser Pro Leu Leu Leu Leu Ser Asp Met Leu Leu Gln Phe
20 25 30

Leu Thr

<210> 4153
<211> 44
<212> PRT
<213> Homo sapiens

<400> 4153
Gly Leu Gly Ser Gly Glu Trp Phe Pro Ala Leu Gln Leu Met Trp Leu
1 5 10 15

Leu Arg Gly Thr Gln Ala Leu Phe His Tyr Leu Pro Asn Asn Gly Gly
20 25 30

Pro Val Phe Asn Cys Ser Thr Thr Thr Gln Asn Thr
35 40

<210> 4154
<211> 31
<212> PRT
<213> Homo sapiens

<400> 4154
Met Leu Leu Arg Val Arg Arg Val Gly Ile Ile Cys His Leu Glu Phe
1 5 10 15

Leu Cys Leu Ala Asp Leu Ser Ser Asp Leu Pro Ile Tyr Gln Arg
20 25 30

<210> 4155
<211> 46
<212> PRT
<213> Homo sapiens

<400> 4155
Met Ser Pro Gly Gly Phe Leu Leu Leu Thr Ser Leu Gly Pro Thr Ile
1 5 10 15

Gly Phe Leu Ala Gly Leu Arg Ser Leu Arg Glu Val Ala Ile Ser Lys
20 25 30

Arg Lys Asp Phe Tyr Leu Arg Leu Ser Gly Lys Glu Ala Glu
35 40 45

<210> 4156
<211> 23
<212> PRT
<213> Homo sapiens

<400> 4156
Met Ser Gln Ser Leu Ile Ile Asn Leu Phe Leu Cys Ile Tyr Ile Leu
  1   5   10   15

Leu Val Leu Ser Gly Glu Pro
             20

<210> 4157
<211> 46
<212> PRT
<213> Homo sapiens

<400> 4157
Met Met Ile Leu Phe Cys Gln Leu Leu Ala Val Ser Trp Gly Cys Cys
  1   5   10   15

Val Tyr Ser Thr Thr Asn Pro Lys Val Ser Ala Ile His Cys Gly Phe
             20   25   30

Ile Glu His Leu Leu Val Cys Ala Cys Val Gly Gly Gly Ile
          35   40   45

<210> 4158
<211> 48
<212> PRT
<213> Homo sapiens

<400> 4158
Met Cys Val Gln Lys Arg Gln Leu Pro Ile Gly Pro Arg Ser His Phe
  1   5   10   15

Leu Met Val Leu Ile Leu Phe Met Gln Pro Val Pro Phe Val His Ile
             20   25   30

Ser Trp Leu Val Asn Lys Ala Thr Ser Asp Leu Phe Phe Lys Asp Leu
          35   40   45

<210> 4159
<211> 37
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4159
Met Xaa Phe Trp Ala Ala Met Gly Leu Leu Glu His Trp Cys Val His
1 5 10 15

Leu His Ser Met Cys Trp Asn Pro Gln Glu Ser Gly Gly Ala His Ile
20 25 30

Gln Gly Lys Val Ser
35

<210> 4160
<211> 37
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4160
Met Xaa Phe Trp Ala Ala Met Gly Leu Leu Glu His Trp Cys Val His
1 5 10 15

Leu His Ser Met Cys Trp Asn Pro Gln Glu Ser Gly Gly Ala His Ile
20 25 30

Gln Gly Lys Val Ser
35

<210> 4161
<211> 59
<212> PRT
<213> Homo sapiens

<400> 4161
Met Leu Ala Arg Leu Arg Gln Val Ser Thr Leu Cys Cys Leu Ser Leu
1 5 10 15

Ala Gln Thr Gly His Phe Val Trp Leu Phe Pro Ser Thr Arg Pro Gln
20 25 30

Trp Glu Gln Ala Ser Leu Pro Gln Ala Ser Glu Thr Asp His Pro Ile
35 40 45

Pro Pro Ser Pro Val Asn Leu Pro Leu Phe Pro
50 55

<210> 4162
<211> 24
<212> PRT
<213> Homo sapiens

<400> 4162
Leu Phe His Ile Thr Glu Trp Asp Leu Cys Phe Glu Glu Thr Asn Pro
1 5 10 15

Thr Asp Thr Leu Ile Leu Asp Phe
20

<210> 4163
<211> 56
<212> PRT
<213> Homo sapiens

<400> 4163
Met Lys Ser His Ser Val Trp Leu Pro Thr Leu Tyr Cys Ala Val Val
1 5 10 15

Lys Val Tyr Leu Cys Val Gly Cys Ser His Pro Leu Val Ser Thr Gly
20 25 30

Ile Gly Pro Arg Ser Leu His Arg Ser Pro Ala Gly Met Pro Val Ser
35 40 45

His Ser Ala Pro Cys Lys Thr His
50 55

<210> 4164
<211> 52
<212> PRT
<213> Homo sapiens

<400> 4164
Met Ile Leu Met Ser Leu Leu Pro Ile Phe Trp Leu Val Thr Pro Leu
1 5 10 15

His Ile Ile Ser Ser Ser Pro Phe Val Leu Cys Val Leu Trp Gly Val
20 25 30

Cys Val Cys Val Cys Val Cys Val Val Gly Glu Gly Cys Phe Arg Asn
35 40 45

Glu Arg Glu Lys
50

<210> 4165
<211> 477
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (73)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (76)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (90)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (112)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (141)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (181)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (341)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4165

```
Met Ala Leu Arg His Ser Ala Cys Arg Arg Phe Ser Leu Ala Glu Phe
  1               5                  10                  15

Ala Gln Xaa Gln Ala Arg Ala Arg His Glu Lys Leu Arg Gln Arg Leu
             20                  25                  30

Lys Glu Glu Lys Leu Glu Met Leu Gln Trp Lys Leu Ser Ala Ala Gly
         35                  40                  45

Val Pro Gln Ala Glu Ala Gly Leu Pro Pro Val Val Asp Ala Ile Xaa
     50                  55                  60

Asp Ala Ser Val Glu Glu Asp Leu Xaa Val Ala Xaa Ala Gly Gly Arg
 65                  70                  75                  80

Leu Glu Glu Val Ser Phe Leu Gln Pro Xaa Pro Ala Arg Arg Arg Arg
                 85                  90                  95

Ala Leu Leu Arg Ala Ser Gly Val Arg Arg Ile Asp Arg Glu Glu Xaa
            100                 105                 110

Arg Glu Leu Gln Ala Leu Arg Gln Ser Arg Glu Asp Cys Gly Cys His
```

```
        115                 120                 125

Cys Asp Arg Ile Cys Asp Pro Glu Thr Cys Ser Cys Xaa Leu Ala Gly
    130                 135                 140

Ile Lys Cys Gln Met Asp His Thr Ala Phe Pro Cys Gly Cys Cys Arg
145                 150                 155                 160

Glu Gly Cys Glu Asn Pro Met Gly Arg Val Glu Phe Asn Gln Ala Arg
                165                 170                 175

Val Gln Thr His Xaa Ile His Thr Leu Thr Arg Leu Gln Leu Glu Gln
            180                 185                 190

Glu Ala Glu Ser Phe Arg Glu Leu Glu Ala Pro Ala Gln Gly Ser Pro
        195                 200                 205

Pro Ser Pro Gly Glu Glu Ala Leu Val Pro Thr Phe Pro Leu Ala Lys
    210                 215                 220

Pro Pro Met Asn Asn Glu Leu Gly Asp Asn Ser Cys Ser Ser Asp Met
225                 230                 235                 240

Thr Asp Ser Ser Thr Ala Ser Ser Ser Ala Ser Gly Thr Ser Glu Ala
                245                 250                 255

Pro Asp Cys Pro Thr His Pro Gly Leu Pro Gly Pro Gly Phe Gln Pro
            260                 265                 270

Gly Val Asp Asp Asp Ser Leu Ala Arg Ile Leu Ser Phe Ser Asp Ser
        275                 280                 285

Asp Phe Gly Gly Glu Glu Glu Glu Glu Glu Glu Gly Ser Val Gly Asn
    290                 295                 300

Leu Asp Asn Leu Ser Cys Phe His Pro Ala Asp Ile Phe Gly Thr Ser
305                 310                 315                 320

Asp Pro Gly Gly Leu Ala Ser Trp Thr His Ser Tyr Ser Gly Cys Ser
                325                 330                 335

Phe Thr Ser Gly Xaa Leu Asp Glu Asn Ala Asn Leu Asp Ala Ser Cys
            340                 345                 350

Phe Leu Asn Gly Gly Leu Glu Gly Ser Arg Glu Gly Ser Leu Pro Gly
        355                 360                 365

Thr Ser Val Pro Pro Ser Met Asp Ala Gly Arg Ser Ser Ser Val Asp
    370                 375                 380

Leu Ser Leu Ser Ser Cys Asp Ser Phe Glu Leu Leu Gln Ala Leu Pro
385                 390                 395                 400

Asp Tyr Ser Leu Gly Pro His Tyr Thr Ser Gln Lys Val Ser Asp Ser
                405                 410                 415

Leu Asp Asn Ile Glu Ala Pro His Phe Pro Leu Pro Gly Leu Ser Pro
            420                 425                 430

Pro Gly Asp Ala Ser Ser Cys Phe Leu Glu Ser Leu Met Gly Phe Ser
        435                 440                 445
```

```
Glu Pro Ala Ala Glu Ala Leu Asp Pro Phe Ile Asp Ser Gln Phe Glu
    450                 455                 460

Asp Thr Val Pro Ala Ser Leu Met Glu Pro Val Pro Val
465                 470                 475



<210> 4166
<211> 8
<212> PRT
<213> Homo sapiens

<400> 4166
Gly Gly Leu Trp Leu Ser Leu Arg
  1               5



<210> 4167
<211> 2
<212> PRT
<213> Homo sapiens

<400> 4167
Ser Leu
  1



<210> 4168
<211> 17
<212> PRT
<213> Homo sapiens

<400> 4168
Leu Ile Phe Ile Val Phe His Thr Ser Ser Gln Ser Leu Pro Gly Thr
  1               5                  10                  15

Trp



<210> 4169
<211> 18
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4169
Met Pro Gly Phe Xaa Trp Phe Val Phe Val Phe Val Phe Leu Ser Asn
  1               5                  10                  15

Pro Ala
```

EP 1 394 256 A2

<210> 4170
<211> 629
<212> PRT
<213> Homo sapiens

<400> 4170

```
Met Cys Phe Ile Pro Leu Val Cys Trp Ile Val Cys Thr Gly Leu Lys
  1               5                  10                  15

Gln Gln Met Glu Ser Gly Lys Ser Leu Ala Gln Thr Ser Lys Thr Thr
             20                  25                  30

Thr Ala Val Tyr Val Phe Phe Leu Ser Ser Leu Leu Gln Pro Arg Gly
         35                  40                  45

Gly Ser Gln Glu His Gly Leu Cys Ala His Leu Trp Gly Leu Cys Ser
     50                  55                  60

Leu Ala Ala Asp Gly Ile Trp Asn Gln Lys Ile Leu Phe Glu Glu Ser
 65                  70                  75                  80

Asp Leu Arg Asn His Gly Leu Gln Lys Ala Asp Val Ser Ala Phe Leu
                 85                  90                  95

Arg Met Asn Leu Phe Gln Lys Glu Val Asp Cys Glu Lys Phe Tyr Ser
            100                 105                 110

Phe Ile His Met Thr Phe Gln Glu Phe Phe Ala Ala Met Tyr Tyr Leu
        115                 120                 125

Leu Glu Glu Glu Lys Glu Gly Arg Thr Asn Val Pro Gly Ser Arg Leu
    130                 135                 140

Lys Leu Pro Ser Arg Asp Val Thr Val Leu Leu Glu Asn Tyr Gly Lys
145                 150                 155                 160

Phe Glu Lys Gly Tyr Leu Ile Phe Val Val Arg Phe Leu Phe Gly Leu
                165                 170                 175

Val Asn Gln Glu Arg Thr Ser Tyr Leu Glu Lys Lys Leu Ser Cys Lys
            180                 185                 190

Ile Ser Gln Gln Ile Arg Leu Glu Leu Leu Lys Trp Ile Glu Val Lys
        195                 200                 205

Ala Lys Ala Lys Lys Leu Gln Ile Gln Pro Ser Gln Leu Glu Leu Phe
    210                 215                 220

Tyr Cys Leu Tyr Glu Met Gln Glu Glu Asp Phe Val Gln Arg Ala Met
225                 230                 235                 240

Asp Tyr Phe Pro Lys Ile Glu Ile Asn Leu Ser Thr Arg Met Asp His
                245                 250                 255

Met Val Ser Ser Phe Cys Ile Glu Asn Cys His Arg Val Glu Ser Leu
            260                 265                 270

Ser Leu Gly Phe Leu His Asn Met Pro Lys Glu Glu Glu Glu Glu Glu
```

EP 1 536 033 A2

```
        275                 280                 285

Lys Glu Gly Arg His Leu Asp Met Val Gln Cys Val Leu Pro Ser Ser
    290                 295                 300

Ser His Ala Ala Cys Ser His Gly Leu Val Asn Ser His Leu Thr Ser
305                 310                 315                 320

Ser Phe Cys Arg Gly Leu Phe Ser Val Leu Ser Thr Ser Gln Ser Leu
                325                 330                 335

Thr Glu Leu Asp Leu Ser Asp Asn Ser Leu Gly Asp Pro Gly Met Arg
            340                 345                 350

Val Leu Cys Glu Thr Leu Gln His Pro Gly Cys Asn Ile Arg Arg Leu
        355                 360                 365

Trp Leu Gly Arg Cys Gly Leu Ser His Glu Cys Cys Phe Asp Ile Ser
    370                 375                 380

Leu Val Leu Ser Ser Asn Gln Lys Leu Val Glu Leu Asp Leu Ser Asp
385                 390                 395                 400

Asn Ala Leu Gly Asp Phe Gly Ile Arg Leu Leu Cys Val Gly Leu Lys
                405                 410                 415

His Leu Leu Cys Asn Leu Lys Lys Leu Trp Leu Val Ser Cys Cys Leu
            420                 425                 430

Thr Ser Ala Cys Cys Gln Asp Leu Ala Ser Val Leu Ser Thr Ser His
        435                 440                 445

Ser Leu Thr Arg Leu Tyr Val Gly Glu Asn Ala Leu Gly Asp Ser Gly
    450                 455                 460

Val Ala Ile Leu Cys Glu Lys Ala Lys Asn Pro Gln Cys Asn Leu Gln
465                 470                 475                 480

Lys Leu Gly Leu Val Asn Ser Gly Leu Thr Ser Val Cys Cys Ser Ala
                485                 490                 495

Leu Ser Ser Val Leu Ser Thr Asn Gln Asn Leu Thr His Leu Tyr Leu
            500                 505                 510

Arg Gly Asn Thr Leu Gly Asp Lys Gly Ile Lys Leu Leu Cys Glu Gly
        515                 520                 525

Leu Leu His Pro Asp Cys Lys Leu Gln Val Leu Glu Leu Asp Asn Cys
    530                 535                 540

Asn Leu Thr Ser His Cys Cys Trp Asp Leu Ser Thr Leu Leu Thr Ser
545                 550                 555                 560

Ser Gln Ser Leu Arg Lys Leu Ser Leu Gly Asn Asn Asp Leu Gly Asp
                565                 570                 575

Leu Gly Val Met Met Phe Cys Glu Val Leu Lys Gln Gln Ser Cys Leu
            580                 585                 590

Leu Gln Asn Leu Gly Leu Ser Glu Met Tyr Phe Asn Tyr Glu Thr Lys
        595                 600                 605
```

Ser Ala Leu Glu Thr Leu Gln Glu Glu Lys Pro Glu Leu Thr Val Val
610 615 620

Phe Glu Pro Ser Trp
625

<210> 4171
<211> 34
<212> PRT
<213> Homo sapiens

<400> 4171
Met Tyr Val Cys Ala Cys Val Phe Val Cys Ala Tyr Cys Val His Met
1 5 10 15

Cys Val Ser Arg Leu Cys Val Ser Phe Trp Gly Met Cys Val Ser Val
20 25 30

Leu Leu

<210> 4172
<211> 16
<212> PRT
<213> Homo sapiens

<400> 4172
Met Thr Glu Leu Leu Leu Phe Phe Ser Pro Leu Tyr Gln Glu Val Asn
1 5 10 15

<210> 4173
<211> 2
<212> PRT
<213> Homo sapiens

<400> 4173
Met Ser
1

<210> 4174
<211> 15
<212> PRT
<213> Homo sapiens

<400> 4174
Met Ser Asn Trp Trp Arg Trp Gly Leu Leu Leu Trp Pro Pro Gln
1 5 10 15

<210> 4175
<211> 60
<212> PRT
<213> Homo sapiens

<400> 4175
Val Ile Thr Met Ala Leu Ala Ala Val Val Thr Glu Val Ala Leu Ala
1 5 10 15

Asn Leu Asn Val Val Glu Thr Val Ala Gly Val Thr Asn Gln Met Lys
20 25 30

Met Ile Gly Gln Asn His Ser His Gln Val Asn Ala Trp Asn Ser Lys
35 40 45

Phe Leu Lys Cys Met Leu Leu Val Met Lys Pro Tyr
50 55 60

<210> 4176
<211> 47
<212> PRT
<213> Homo sapiens

<400> 4176
Pro Thr Leu Thr Ala Pro Thr Leu Ala Leu Leu Leu Leu Pro Lys Ile
1 5 10 15

Ser Cys Leu Leu Thr Ser Thr His Pro Arg Thr Gln Gly Ser Arg Ala
20 25 30

His Phe Pro Arg Ala Trp Arg Thr Pro Gln Thr Pro Ser Ser Met
35 40 45

<210> 4177
<211> 27
<212> PRT
<213> Homo sapiens

<400> 4177
Met Ala Ser Thr Ser Arg Trp Thr Arg Trp Ala Leu Leu Leu Ala Ser
1 5 10 15

Ser Ser Ala Trp Pro Asn Ser Thr Ala Pro Ser
20 25

<210> 4178
<211> 51
<212> PRT
<213> Homo sapiens

<400> 4178
Met Ala Phe Leu Ser Leu Phe Pro Leu Ser Ser Leu Phe Ser His Phe
1 5 10 15

Ser Leu Phe Lys Thr Cys Leu Gln Ser Thr Gln Asn Arg Val Asp Lys
20 25 30

Ser Leu Ser Ser Pro Asp Phe Ser Trp Pro Arg Asn Glu Arg Leu Phe
35 40 45

Ser Lys Pro
50

<210> 4179
<211> 30
<212> PRT
<213> Homo sapiens

<400> 4179
Ile Ser Met Phe Ser Leu Leu Val Lys Met Cys Val Gln Met Thr Val
1 5 10 15

Gly Arg Asp Ala Arg Cys Lys Phe Thr Ser Leu Pro Ser Leu
20 25 30

<210> 4180
<211> 9
<212> PRT
<213> Homo sapiens

<400> 4180
Met Gly Thr Arg Leu Gly Asp Phe Cys
1 5

<210> 4181
<211> 31
<212> PRT
<213> Homo sapiens

<400> 4181
Met Leu Cys Val His Phe Ser Ala Arg Glu Ser Val Ala Phe Leu Cys
1 5 10 15

Leu Ser Lys Gly Ser Thr Val Gln Asn Ser Leu Ala Pro Leu Thr
20 25 30

<210> 4182
<211> 68
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4182

```
Ile Leu Ala Thr Pro Gln Pro Leu Val Val Pro His Ala His Phe Ala
  1               5                  10                  15

Glu Asp Glu Pro Gln Val Leu Ile Arg Cys Trp Asn Lys Pro Pro Xaa
             20                  25                  30

Leu Ser Glu Ser Pro Thr Asn Leu Glu Phe Glu Thr His Ser Leu Ala
         35                  40                  45

Arg Leu Asn Gly Leu Cys Ser Ala Ile Lys Arg Leu Leu Gly Cys Tyr
     50                  55                  60

Pro Trp Gln Gly
 65
```

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<210> 4183
<211> 75
<212> PRT
<213> Homo sapiens

<400> 4183

```
Met Ser Ala Leu Pro Ser Pro Leu Cys Pro Phe Cys Ser Val Leu Leu
  1               5                  10                  15

Leu Pro Ser Pro Pro Ala Arg Val Pro Gly Leu Cys Leu Leu Phe Leu
             20                  25                  30

Ser Leu Pro Pro Leu Thr Pro Pro Ser Thr Val Gly Thr Cys Lys Pro
         35                  40                  45

Gln Gly Cys Ala Pro Ser Trp Ser Pro Ile His Pro Arg Asn Val Ser
     50                  55                  60

Cys Ser Ile Tyr Lys Gly His Gly Asp Phe Gly
 65                  70                  75
```

<210> 4184
<211> 41
<212> PRT
<213> Homo sapiens

<400> 4184

```
Met Thr Tyr Leu Leu Phe Leu Ser Glu Leu Asp Thr Leu Cys Pro Gly
  1               5                  10                  15

Gln Pro Cys Pro Trp Ala Ala Thr Ala His Gln Ser Trp Glu Glu Ala
             20                  25                  30

Gly Pro Gly Gly Leu Gly Arg Arg Gln
         35                  40
```

<210> 4185
<211> 12
<212> PRT
<213> Homo sapiens

<400> 4185
Met Gly Ser Ser Leu Ala Phe Ile Leu Phe Leu Pro
1 5 10

<210> 4186
<211> 8
<212> PRT
<213> Homo sapiens

<400> 4186
Gly Leu Ser Tyr Phe Leu Asp His
1 5

<210> 4187
<211> 99
<212> PRT
<213> Homo sapiens

<400> 4187
Met Arg Leu Gly Arg Trp Gly Leu Arg Met Trp Pro Trp Arg Val Leu
1 5 10 15

Phe Leu Ala Gly Ala Ser Pro Ser Gln Leu Gln Glu Met Gly Cys Arg
20 25 30

Cys Thr Ser Thr Ala Gln Ser Ser Ala Gly Glu Gly Ser Lys Thr Ser
35 40 45

Leu His Pro Asp Pro Arg Val Cys Arg Ser Phe Gln Leu Leu Ala Pro
50 55 60

Trp Arg Met Gly Arg Glu Gly Glu Arg Gly Arg Trp Val Glu Asp Ser
65 70 75 80

Thr Gly Ala Trp Pro His Asp Gly Cys Asn Ala Ala Thr Phe Ser Val
85 90 95

Gly His Val

<210> 4188
<211> 19
<212> PRT
<213> Homo sapiens

<400> 4188
Ala Phe Ile Asn Ser Cys Ile Phe Phe Pro Leu Phe Leu Leu Ala Tyr
1 5 10 15

Tyr Val Tyr

<210> 4189
<211> 20
<212> PRT
<213> Homo sapiens

<400> 4189
Asp Ser Phe Ile Gly Glu Trp Val Val Ala Leu Gly Lys Val Leu Pro
1 5 10 15

Tyr Cys Leu Phe
20

<210> 4190
<211> 42
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4190
Met Lys Gly His Tyr Pro Cys Ala Trp Met Ser Leu Ser Trp Phe Arg
1 5 10 15

Thr Leu Ser Ala Met Ile Tyr Cys Leu Leu Tyr Ile Asp Lys Ser Ser
20 25 30

Ile Xaa Phe Phe Thr Asn Glu Arg Arg Ile
35 40

<210> 4191
<211> 32
<212> PRT
<213> Homo sapiens

<400> 4191
Met Gly Cys Glu Leu Trp Ile Ser Ala Ala Trp Ile Ser Ala Val Trp
1 5 10 15

Cys Ser Asn Arg Leu His Asn Leu Val Glu Ser Gln Ser Ser His Leu
20 25 30

<210> 4192
<211> 19
<212> PRT
<213> Homo sapiens

<400> 4192
Asp Lys Phe Leu Ile Phe Ser Tyr Phe Cys Leu Cys Leu Phe Met Pro
1 5 10 15

Leu Ile Pro

<210> 4193
<211> 26
<212> PRT
<213> Homo sapiens

<400> 4193
Met Pro Trp Tyr Phe Ser Pro Ser Leu Leu Trp Ser Leu Phe Gln Trp
1 5 10 15

Ser Asp Ser Glu Ala Gly Ser Arg Leu Cys
20 25

<210> 4194
<211> 35
<212> PRT
<213> Homo sapiens

<400> 4194
Met Ser Leu Pro Met Ser Phe Phe Ile Leu Ser His Leu Ser Ser Phe
1 5 10 15

Met Ile Cys Thr Tyr Gly Lys Asp Tyr Ser His Phe Thr Asp Glu Gly
20 25 30

Ala Phe Thr
35

<210> 4195
<211> 52
<212> PRT
<213> Homo sapiens

<400> 4195
Met Pro Leu Ala Ile Phe Ala Leu Val Asp Leu Phe Trp Val Ser Ser
1 5 10 15

Phe Ser Asn Ile Asn Val Pro Lys Asp His Leu Val Lys Cys Leu Arg
20 25 30

Phe Arg Val Leu Ser His Pro Glu Arg Ser Gly Leu Asn Arg Ser Arg
35 40 45

Asn Leu His Phe
50

<210> 4196
<211> 38
<212> PRT
<213> Homo sapiens

<400> 4196
Met Tyr Met Gln His Val Leu Leu Cys Leu Met Tyr Ile Ser Met Ser
1 5 10 15

Phe Asn Lys Phe Ile Leu Ser Cys Asn Asn His His Asp Gln Phe Thr
20 25 30

Glu Arg Phe His Leu Leu
35

<210> 4197
<211> 20
<212> PRT
<213> Homo sapiens

<400> 4197
Met Ser Trp Leu Arg Ile Ile Leu Ser Met Leu Lys Thr Ala Phe Glu
1 5 10 15

Pro Arg Ser Val
20

<210> 4198
<211> 55
<212> PRT
<213> Homo sapiens

<400> 4198
Met Cys Thr Ser Phe Met Gln Leu Trp Phe Val Leu Gly Leu Ala Asp
1 5 10 15

Leu Gly Trp Ala Trp Leu Gln Ala Ile Cys Leu Val His Val Cys Ser
20 25 30

Leu His Leu Ser Leu Phe Trp Asp Gln Gln Val Thr Gln Gly Met Leu
35 40 45

Pro Ser Trp Pro Trp Lys Asn
50 55

<210> 4199
<211> 31
<212> PRT
<213> Homo sapiens

<400> 4199
Met Leu Leu Ile Leu Phe Phe Ile Gln Val Thr Gly Cys Ile Arg Glu
1 5 10 15

Met Val Trp Ala Phe Lys Gly Ile Thr Glu Lys Gly Ile Ser Tyr
20 25 30

<210> 4200
<211> 6
<212> PRT
<213> Homo sapiens

<400> 4200
Ala Gly Ala Val Phe Gly
1 5

<210> 4201
<211> 44
<212> PRT
<213> Homo sapiens

<400> 4201
Met Phe Ser Leu Leu Arg Ala Phe Pro Ser Asp Arg Cys Pro Cys Pro
1 5 10 15

Ala Ala Ser Thr Gly Trp Gln Arg Ala Arg Ala Ser Ala Pro Lys Leu
20 25 30

Ser Cys Arg Ala Leu Arg Pro Arg Val Cys Pro Gln
35 40

<210> 4202
<211> 34
<212> PRT
<213> Homo sapiens

<400> 4202
Met Pro Ser Leu Ile Phe Ile Ile Ser Phe Phe Leu Leu Ala Val Asp
1 5 10 15

Leu Val Cys Pro Ser Phe Ser Cys Ser Leu Arg Cys Ala Gly Asn Leu
20 25 30

Phe Leu

<210> 4203
<211> 74
<212> PRT
<213> Homo sapiens

<400> 4203
Met Arg Ser Ser Leu Trp Ser Ser Ser Ser Leu Leu Ser Leu Met Ala
1 5 10 15

Asn Phe Pro Ala Gln Thr Ser Ala Ser Gly Leu Phe Pro Ser Val His
20 25 30

Thr Asp Phe Phe Pro Ser Pro Val Pro Ser Trp Arg Val Gly Pro Ser
35 40 45

Ala Ala Ala Leu Gly His Ser Gln Asp Lys Val Leu Val Tyr Leu Gly

50 55 60

Glu Gln Ile Thr Ser Ser Ser Ile His Thr
65 70

<210> 4204
<211> 36
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4204
Met Cys Ile Cys Val Phe Tyr Met Ile Tyr Ile Tyr Leu Tyr Xaa Met
1 5 10 15

Phe Thr Tyr Lys Val Gly Ser Gln Thr Trp Lys Asp Phe Pro Tyr His
20 25 30

Thr Lys Glu Ile
35

<210> 4205
<211> 67
<212> PRT
<213> Homo sapiens

<400> 4205
Met Phe Lys Leu Leu Leu Ser Gly Ala Ser Ala Ile His Cys Val Phe
1 5 10 15

Val Cys Val Trp Cys Ser Val Val His Val Arg Val Cys Val Cys Asp
20 25 30

Val Leu Glu Leu Leu Cys Val Leu Ser Gly Arg Ala Gln Leu His Ser
35 40 45

Leu Gly Asp Lys Gly Glu Asp Thr Asp Gly Arg Arg Arg Ile Thr Gly
50 55 60

Leu His Phe
65

<210> 4206
<211> 17
<212> PRT
<213> Homo sapiens

<400> 4206
Ile Cys Ile Trp Asn Ile Ser Tyr Met Asn Met Tyr Phe Phe Thr Gln
1 5 10 15

Gln

<210> 4207
<211> 42
<212> PRT
<213> Homo sapiens

<400> 4207
Met Ser Pro Val Leu His Leu Arg Arg Leu Ala Arg Cys Ile Leu Phe
1 5 10 15

His Leu Pro Gln Phe Ser Ser Ser Val Lys Arg Pro His Gly Phe Gly
20 25 30

Ala Asn Arg Met Thr Asp Lys Arg Asp Lys
35 40

<210> 4208
<211> 35
<212> PRT
<213> Homo sapiens

<400> 4208
Met Tyr Leu Leu Ile Asn Lys Leu Tyr Ile Phe Cys Met Phe Thr Gln
1 5 10 15

Thr Val Leu Val Leu Glu Ser Pro His His Leu Asn Phe Val Gly Glu
20 25 30

Phe Cys Lys
35

<210> 4209
<211> 55
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4209
Met Trp Leu Thr Lys Lys Phe Lys Leu Asn Val Arg Leu Thr Phe Cys
1 5 10 15

Phe Tyr Trp Thr Ala Gln Val Glu Lys Val Ser Glu His Lys Thr Pro
20 25 30

Xaa Lys Tyr Ile Phe His Trp Asp Trp Gly Trp Val Leu Trp Gly Lys
35 40 45

Cys Ile Gly Ala Gly Gln Cys
50 55

<210> 4210
<211> 92
<212> PRT
<213> Homo sapiens

<400> 4210
Met Ser Asp Ala Pro Leu Gly Val Trp Val Leu Leu Gln Ala Val Arg
1 5 10 15

Cys Ser Pro Gly Cys Val Gly Thr Ala Pro Asp Ser Pro Met Leu Thr
20 25 30

Cys Gly Cys Gly Cys Cys Ser Arg Pro Ser Asp Ala His Leu Gly Val
35 40 45

Trp Val Leu Leu Gln Val Val Arg Cys Ser Pro Trp Ala Met Gly Ala
50 55 60

Ala Thr Cys Cys Gln Met Leu Thr Ser Gly Cys Gly His Cys Ser Gly
65 70 75 80

Leu Ser Asp Ala Arg Leu Trp Leu Trp Ala Leu Leu
85 90

<210> 4211
<211> 83
<212> PRT
<213> Homo sapiens

<400> 4211
Pro Leu Gln Ser Ser Pro Trp Arg Leu Leu Phe Arg Gly His Leu Pro
1 5 10 15

Val Leu Ser Gly Gly Ser Val Pro Ala Ser Ala Pro Gly Ser His Pro
20 25 30

Cys Pro Ala His Glu Gly Ala His Pro Trp Thr Tyr Leu Ser Ser Pro
35 40 45

Thr Thr Ser Leu Ala Phe Asn Gly Ser Gly Ile Arg Asp Arg Gly Ala
50 55 60

Thr Arg Gln Arg Ala Pro Gly Gly Leu Met Gly Gly Arg Gly Lys Ser
65 70 75 80

Arg His Cys

<210> 4212
<211> 38
<212> PRT
<213> Homo sapiens

<400> 4212

```
Met Cys Val Gly Lys Asp Phe Phe Trp Phe Leu Leu Phe Gly Phe Ala
  1               5                  10                  15

Gln Ile Leu Glu Ser Val Gly Leu His Leu Leu Pro Asn Leu Lys Ser
             20                  25                  30

Phe Leu Ser Leu Phe Leu
         35
```

<210> 4213
<211> 54
<212> PRT
<213> Homo sapiens

<400> 4213
```
Met Arg Arg Cys Thr Leu Glu Gly Asn Arg Trp Leu Leu Phe Leu Cys
  1               5                  10                  15

Val Val Trp Asn Gly Trp Gln Lys Val Ser Glu Leu Cys Gly Arg Gln
             20                  25                  30

His Gly Ala Lys Gly Thr Val Ser Pro Ser Ser Pro Leu Pro Leu Ser
         35                  40                  45

Gln Thr Pro Ala Asp Ile
     50
```

<210> 4214
<211> 22
<212> PRT
<213> Homo sapiens

<400> 4214
```
Thr Ser Leu Ile Leu Cys Cys Leu Ser Thr Tyr Leu Leu Ser Leu Tyr
  1               5                  10                  15

Cys Gly Pro Cys Thr Tyr
             20
```

<210> 4215
<211> 41
<212> PRT
<213> Homo sapiens

<400> 4215
```
Met Asp Ile Leu Phe Phe Phe Leu Phe Tyr Phe Leu Gln Glu Arg Leu
  1               5                  10                  15

Gly Phe Ser Thr Val Ser Asn Lys Ser Ser Gly Val Ile Phe Phe Pro
             20                  25                  30

Val Val Leu Pro Gln Pro Pro Glu Ser
         35                  40
```

<210> 4216
<211> 35
<212> PRT
<213> Homo sapiens

<400> 4216
Met Cys Ile Ala Ile Val His Ser Leu Ser Leu Pro Tyr Gly Thr Pro
1 5 10 15

Leu Tyr Glu Pro Ser Ile Tyr Cys Ile Tyr Gly Cys Gly Thr Asn Tyr
20 25 30

Pro Lys Thr
35

<210> 4217
<211> 71
<212> PRT
<213> Homo sapiens

<400> 4217
Met Asn Trp Arg Ser Cys Lys Leu Gly Ser Val Tyr Tyr Tyr Arg Phe
1 5 10 15

Cys Thr Val Ser Pro Arg Val Leu Val Lys Gln Asp Gly Gly Arg Gly
20 25 30

Thr Ser Phe Pro Ser Phe Thr Ser Leu Arg Ser Ile Phe Ser Ile Phe
35 40 45

Tyr Asn Phe Ala Phe Gly Lys Gly Leu Leu Ile Ser Trp Glu Phe Arg
50 55 60

His Ile Leu Lys Ile Ser Pro
65 70

<210> 4218
<211> 4
<212> PRT
<213> Homo sapiens

<400> 4218
Met Val Ser Cys
1

<210> 4219
<211> 35
<212> PRT
<213> Homo sapiens

<400> 4219
Met Pro Gly Ser Cys Phe Ser Trp Ser Phe Ser Arg Leu Leu Gly Val
1 5 10 15

Phe Leu Ser Leu Gln Cys Ser Trp Lys Thr Val Tyr Gly Ile Leu Ser
20 25 30

Arg Glu Ala
35

<210> 4220
<211> 31
<212> PRT
<213> Homo sapiens

<400> 4220
Met Gly His Ile Phe Trp Met Cys Ala Leu Lys Leu Ile Leu Leu Ala
1 5 10 15

Arg Arg Lys Lys Gly Asp Ala Ser Val Ser Asn Ile Leu Asp Thr
20 25 30

<210> 4221
<211> 23
<212> PRT
<213> Homo sapiens

<400> 4221
Met Leu His Phe Tyr Thr Ile Lys Phe Ile Phe Ser Ile Val Cys Leu
1 5 10 15

Leu Ala Pro Ile Gly Ser Arg
20

<210> 4222
<211> 29
<212> PRT
<213> Homo sapiens

<400> 4222
Met Tyr Leu Ile Phe Val Tyr Cys Val Val Leu Phe Phe Val Ser Ala
1 5 10 15

Leu Thr Gly Val Ala Gly Gly Ala Pro Ser Glu Met His
20 25

<210> 4223
<211> 20
<212> PRT
<213> Homo sapiens

<400> 4223
Met Ile Lys Leu Asn Thr Ser Phe Ser Ile Phe Asn Ala Ala Met Leu
1 5 10 15

Leu Tyr Leu Trp
20

<210> 4224
<211> 35
<212> PRT
<213> Homo sapiens

<400> 4224
Met Asn Asn Pro Gln Ser Pro Gly Leu Ile Leu Phe Thr Trp Leu Ser
1 5 10 15

Cys Leu Phe Ala Phe Arg Ser Val Leu Ala Ser Ser Leu Ser Lys Arg
20 25 30

Ile Arg Ala
35

<210> 4225
<211> 38
<212> PRT
<213> Homo sapiens

<400> 4225
Met His Arg Arg Asp Leu Ser Val Cys Val Cys Leu Cys Leu Cys Pro
1 5 10 15

Ser Leu Ser Leu Ser Leu Cys Lys Thr Arg Ile His Cys Cys Arg Glu
20 25 30

Leu Pro Gln Ile Ala Pro
35

<210> 4226
<211> 68
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4226
Met Trp His Met Met Ser Phe Thr Pro Cys Ser Leu Pro Cys Ser Leu
1 5 10 15

Ala Leu Cys Leu Pro Xaa Gly Pro Ala Cys Leu Pro Pro Val Pro Leu
20 25 30

Pro Leu Thr Ser Asn Ile Gln Leu Lys Ala Lys Ala Gly Leu Leu Leu
35 40 45

Arg Gln Arg Leu Cys Ser Ile Ala Ser Val His Leu Pro Ala Leu Leu
50 55 60

Val Ser Ala Arg

<210> 4227
<211> 32
<212> PRT
<213> Homo sapiens

<400> 4227
Met Tyr Val Arg Leu Asn Val Thr Tyr Tyr Leu Gly Leu Phe Phe Lys
1 5 10 15

Leu Lys Phe Ala Leu Ala Leu Gln Pro Ala Arg Gln Gly Val Ile Thr
20 25 30

<210> 4228
<211> 54
<212> PRT
<213> Homo sapiens

<400> 4228
Met Leu Pro Asn Ile Val Leu Pro Ser Trp Cys Leu Val Cys Leu Val
1 5 10 15

Gln Phe Ser Phe Thr Phe Leu Ser Pro Ser His Ser Pro Arg Ile Val
20 25 30

Thr Thr Gly Leu Tyr Thr Pro Gly Arg His Glu Pro Asn Leu Leu Ser
35 40 45

Cys Ser Leu Leu His Leu
50

<210> 4229
<211> 6
<212> PRT
<213> Homo sapiens

<400> 4229
Met Arg Thr Arg Leu Trp
1 5

<210> 4230
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4230
Met Ala Ala Ile Gly Xaa Asn Gly Phe
1 5

<210> 4231
<211> 25
<212> PRT
<213> Homo sapiens

<400> 4231
Met Ala Leu Asn Trp Leu Thr Leu Leu Leu Thr Trp Thr Phe Glu Ser
1 5 10 15

Tyr Val Val Thr Tyr Phe Pro His Leu
20 25

<210> 4232
<211> 23
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4232
Met Cys Ala Asp Leu Pro Gly Pro Val Gly Xaa Ala Asp Val Gly Pro
1 5 10 15

Gly Ser Tyr Pro Gly Ile Trp
20

<210> 4233
<211> 64
<212> PRT
<213> Homo sapiens

<400> 4233
His Met His Thr Ala Val Ala His Thr Ser Leu Ser Leu Ser Leu Val
1 5 10 15

Thr Val Leu Pro Cys Asp Ser His Pro Ser Asp Arg Pro Cys Ser Leu
20 25 30

Ala Ala Pro Ser Thr Gly Arg Gly Leu Ala Trp Cys Pro Val Ser Val
35 40 45

Cys Leu His Arg Ala Gly Arg Phe His Lys Asp Trp Leu Met Ser Arg
50 55 60

<210> 4234
<211> 5
<212> PRT
<213> Homo sapiens

<400> 4234
Met Ala Leu Pro Thr
1 5

<210> 4235
<211> 32
<212> PRT
<213> Homo sapiens

<400> 4235
Met Gly Ser Pro Gly Ala Leu Leu Ala Leu Leu Pro Ser Leu Leu Pro
1 5 10 15

Phe Ser Trp Gly Leu Gly Pro Trp Pro Leu Leu Ser Ser Pro Lys Thr
20 25 30

<210> 4236
<211> 36
<212> PRT
<213> Homo sapiens

<400> 4236
Met Phe Ile Trp Val Gly Val Ser Leu Cys Leu Met Phe Thr Val Ala
1 5 10 15

Ile Asp Ala Arg Asp Phe Arg Phe Leu Ser Cys Pro Asn Phe Tyr Leu
20 25 30

Pro Phe Asp Phe
35

<210> 4237
<211> 18
<212> PRT
<213> Homo sapiens

<400> 4237
Met Thr Ile Pro Ser Leu Asn Asp Phe Val Cys Arg Ile Leu Leu Leu
1 5 10 15

Leu Asn

<210> 4238
<211> 57
<212> PRT
<213> Homo sapiens

<400> 4238
Lys Ser Ala Arg Ile Arg Ile Phe Leu Ile Pro Leu Cys Ser Thr Ser
1 5 10 15

Leu Pro Ile Pro Lys Phe Leu Pro Leu Gly Arg Lys Phe Leu Leu Leu
20 25 30

Leu Phe Asp Leu Ile Phe Asn Ser Ile Ser Met Ile Phe Cys Phe Val
35 40 45

Phe Phe Phe Leu Arg Met Thr Val Phe
50 55

<210> 4239
<211> 43
<212> PRT
<213> Homo sapiens

<400> 4239
Asn Cys Asn Leu Leu Phe Ala Cys Ile Val Ile Leu Val Tyr Ala Leu
1 5 10 15

Phe Asp Ile Ser Cys Leu Pro Tyr Leu Tyr Leu Lys Tyr Ser Lys Tyr
20 25 30

Leu Phe Leu Tyr Ile Phe Gly Lys Asn Ile Phe
35 40

<210> 4240
<211> 56
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4240
Met Gly Arg Phe Trp Ala Trp His Ile Ile Ala Ser Leu Leu Leu Xaa
1 5 10 15

His Thr Ile Phe Xaa Arg Asn Asn Ser Glu Ser Gln Glu Val Lys Glu
20 25 30

Asn Ala Ile Ser Thr Leu Cys Arg Ile Glu Arg His Leu Thr Asn Arg
35 40 45

Cys Gly Ser Gln Ile Xaa Ile Phe
50 55

<210> 4241
<211> 6
<212> PRT
<213> Homo sapiens

<400> 4241
Trp Met His Thr Gly His
1 5

<210> 4242
<211> 49
<212> PRT
<213> Homo sapiens

<400> 4242
Phe Phe Ala Phe Leu Gly Pro Phe Pro Phe Thr Leu Ile Ser Leu Ser
1 5 10 15

Arg Gly Leu Gln Phe Pro His Asn Arg Phe Asp Arg Arg Lys Ile Leu
20 25 30

Asn Trp Glu Ala His Arg Gly Lys Arg Thr Ala Phe Leu Arg Ile Pro
35 40 45

Val

<210> 4243
<211> 66
<212> PRT
<213> Homo sapiens

<400> 4243
Met Ile Lys Ile Gly Ser Gln Asn Lys Gln Lys Arg Lys Lys Ser Arg
1 5 10 15

Lys Phe Leu Pro Ala Cys Ser Leu Cys Met Leu Leu Cys Asn Val Ile
20 25 30

Leu Leu Leu Ala Pro Ser Arg Asp Gly Ser Pro Glu Ser Glu Leu Asp
35 40 45

His Val Asn Cys Phe Asp His Trp Ser Ile His Lys His Gly Thr Thr
50 55 60

Glu Ala

65

<210> 4244
<211> 30
<212> PRT
<213> Homo sapiens

<400> 4244
Met Trp Cys Met Leu Asp Ile Thr Phe Leu Leu Gly Leu Trp Asn Phe
1 5 10 15

Gly Ile Cys Gln Ala Glu Gly Ile Asn Val Thr Thr Pro Gln
20 25 30

<210> 4245
<211> 67
<212> PRT
<213> Homo sapiens

<400> 4245
Met Trp Arg Gln Lys Thr Leu Tyr Phe Thr Phe Leu Leu Asn Val Ser
1 5 10 15

Phe Ser Leu Tyr Phe Ser Phe Ser Leu Trp Tyr Phe Phe Thr Pro Cys
20 25 30

Pro His Pro His Pro Pro Thr Pro Thr Leu Ala Leu Pro Asn Ala Thr
35 40 45

Lys Ile Val Leu Ile Arg Thr Pro Gly Ser Pro Thr Asn Arg Ser Asp
50 55 60

Thr Ile Asn
65

<210> 4246
<211> 52
<212> PRT
<213> Homo sapiens

<400> 4246
Gly Ala Thr Gly Met Trp Arg Cys Arg Gly Tyr Trp Ala Pro Gly Gln
1 5 10 15

Asn Ala Ile Trp Trp Leu Ala Leu Lys Met Val Leu Cys Cys Ser Cys
20 25 30

Leu Gly Leu Gly Glu Phe Met Arg Pro Ser Met Ser Ser Leu Ser Gly
35 40 45

Ala Val Pro Leu
50

<210> 4247
<211> 22
<212> PRT
<213> Homo sapiens

<400> 4247
Met Leu Cys Ser Leu Ser Leu Ser Leu Leu Leu Phe Ala Asn Ser Ser
1 5 10 15

Thr Leu Asn Pro Lys Ser
20

<210> 4248
<211> 33
<212> PRT
<213> Homo sapiens

<400> 4248
Met Pro Val His Ser His Thr Pro Val Glu Arg Leu Val Tyr Leu Thr
1 5 10 15

Leu Phe Phe Ser Leu Leu Lys Lys Cys His Leu Thr Asn Ser Ile Thr
20 25 30

Ser

<210> 4249
<211> 9
<212> PRT
<213> Homo sapiens

<400> 4249
Cys Cys Val Leu Lys Ile Phe Gly Ser
1 5

<210> 4250
<211> 159
<212> PRT
<213> Homo sapiens

<400> 4250
Met Tyr Thr Phe Ala Cys Val His Val Cys Thr Cys Val Cys Leu Cys
1 5 10 15

Ala Tyr Leu Ser Val Cys Val His Ile Cys Met Tyr Met Gly Pro Val
20 25 30

Ile Ala Ala Arg Leu Leu Pro Arg Ala Phe Ser Ala Arg Trp Pro Cys
35 40 45

Leu Cys Ser Phe Cys Gln Pro Arg Gly Ala Glu Trp Pro Ser Ser Gln
50 55 60

Pro Gln Trp Ala Gln Trp Gly Gly Pro Ser Ser Glu Gly Thr Arg Ala

65 70 75 80

Ala Ala Ser Pro Val Phe Pro His Ala Val Leu Arg Ala Pro Val His
85 90 95

Glu Pro His Ser Gln Glu Gln Ser Pro Arg His Leu Ser His Leu Gly
100 105 110

His Pro Trp Pro Cys Val Arg Ser Gln Ser Leu Glu Gly Phe Val His
115 120 125

Gln Ala Trp Asp Pro Gly Ile Leu Pro Gln Ser Pro Pro Ala Trp Gly
130 135 140

Gln Cys Gly Gly Trp Arg Gly Trp Arg Val Ala Arg Val Ala Gly
145 150 155

<210> 4251
<211> 23
<212> PRT
<213> Homo sapiens

<400> 4251
Met Arg Asn Leu Glu Val Met His Ser Arg Ser Leu Gly Ile Cys Asp
1 5 10 15

Ser His Ser Val Arg Cys Phe
20

<210> 4252
<211> 38
<212> PRT
<213> Homo sapiens

<400> 4252
Met Thr Gly Lys Met Thr Val Met Met Arg Ile Pro Ser Ser Ile Val
1 5 10 15

Thr Asn Thr Ala Met Glu Ser Glu Val Pro Gly Phe Lys Thr Gln Val
20 25 30

Tyr Arg Ser Leu Ala Val
35

<210> 4253
<211> 53
<212> PRT
<213> Homo sapiens

<400> 4253
Met Arg His His Val Ala Val Leu Pro Leu Gly Ser Asn Val Leu Lys
1 5 10 15

Leu Leu Cys Leu Phe Phe Glu Arg Asn Ile Ser Arg Glu Val Pro Lys
20 25 30

Ser Ser Leu Val Ile Ser Phe Asn Asp Ala Glu Ile Leu Val Lys Lys
35 40 45

Leu Gly Ser Leu Pro
50

<210> 4254
<211> 21
<212> PRT
<213> Homo sapiens

<400> 4254
Met Ile Thr Ala Ile Gly Ile Phe Thr Cys Ile Leu Leu Ser Phe Ile
1 5 10 15

Ser Pro Met Tyr Ile
20

<210> 4255
<211> 37
<212> PRT
<213> Homo sapiens

<400> 4255
Met Tyr Phe Pro Ile Ile Cys Phe Arg Leu Phe Leu Phe Thr Glu Met
1 5 10 15

Ile Phe Ser Lys Ile Gly Thr Thr Lys Lys Leu Gln Met Gln Thr Tyr
20 25 30

Val Ile Ser Leu Leu
35

<210> 4256
<211> 160
<212> PRT
<213> Homo sapiens

<400> 4256
Ala Thr Arg Gly Gly Trp Leu Phe Arg Ala Ile Pro Ala Ser Val Glu
1 5 10 15

His Gly Arg Val Tyr Val Gly Asn Val Ala Trp Met His Val Leu Ala
20 25 30

Ala Arg Glu Leu Glu Gln Arg Ala Ala Leu Met Gly Gly Gln Val Tyr
35 40 45

Phe Cys Tyr Asp Gly Ser Pro Tyr Arg Ser Tyr Glu Asp Phe Asn Met
50 55 60

Glu Phe Leu Gly Pro Cys Gly Leu Arg Leu Val Gly Ala Arg Pro Leu
65 70 75 80

```
Leu Pro Tyr Trp Leu Leu Val Phe Leu Ala Ala Leu Asn Ala Leu Leu
                85                  90                  95

Gln Trp Leu Leu Arg Pro Leu Val Leu Tyr Ala Pro Leu Leu Asn Pro
            100                 105                 110

Tyr Thr Leu Ala Val Ala Asn Thr Thr Phe Thr Val Ser Thr Asp Lys
        115                 120                 125

Ala Gln Arg His Phe Gly Tyr Glu Pro Leu Phe Ser Trp Glu Asp Ser
    130                 135                 140

Arg Thr Arg Thr Ile Leu Trp Val Gln Ala Ala Thr Gly Ser Ala Gln
145                 150                 155                 160
```

PCT/US2020/064569

<210> 4257
<211> 14
<212> PRT
<213> Homo sapiens

<400> 4257
Met Ala Trp Thr Leu Leu Gly Arg Val Val Gly His His Pro
  1   5   10

<210> 4258
<211> 1
<212> PRT
<213> Homo sapiens

<400> 4258
Ser
  1

<210> 4259
<211> 36
<212> PRT
<213> Homo sapiens

<400> 4259
Met Leu Ile Val Tyr Leu Lys Phe Gln Phe Asn Cys Ala Ser Val Phe
  1   5   10   15

Cys Leu Gly Ile Leu Leu Trp Gly Thr Ser Arg Ser Leu Ala Ser Ser
            20   25   30

Trp Ser Met Ser
        35

<210> 4260
<211> 12

<212> PRT
<213> Homo sapiens

<400> 4260
Met Ile Leu Ala Leu Ile Lys Met Met Thr Phe Ala
1 5 10

<210> 4261
<211> 41
<212> PRT
<213> Homo sapiens

<400> 4261
Met His Leu Cys Trp Ala Gly Ala Leu Ser Phe Val Phe Trp Ala Asn
1 5 10 15

Leu Ile Leu Ile Tyr Leu Phe Gly Thr Ser Glu Ser Pro Gln Asn Ile
20 25 30

Leu Ser Ser Tyr Phe Glu Leu Gly Val
35 40

<210> 4262
<211> 31
<212> PRT
<213> Homo sapiens

<400> 4262
Met Lys Ala Ile Leu Cys Phe Leu Leu Leu Leu Met Asn Pro Phe Pro
1 5 10 15

Pro Phe Ser Phe Pro Ser Pro Ile Asp Gln Lys Cys Glu Gly Gly
20 25 30

<210> 4263
<211> 187
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (140)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (141)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (152)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE
<222> (175)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (178)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4263
Met His Pro Leu Pro Arg Ala Trp Gly Leu Val Val Gly Ser Leu Ala
1 5 10 15

Phe Thr Gln Gly Ala Cys Leu Ser His Gly Gly Gln Pro Lys Val Gly
20 25 30

Arg Ser Pro Leu Gly Asp Trp Asp Lys Met Pro Ser Phe Gln Arg Asn
35 40 45

Val Glu Ala Ser Arg Lys Lys Lys Ala Val Arg Pro Glu Glu Ser Gly
50 55 60

Val Leu His Gln Arg Pro Val Pro Ser Gly Gln Pro Leu Arg Trp Ala
65 70 75 80

Leu Gly Gly Cys Gly Val Pro Gly Phe His Gln Gly Cys Val Cys Leu
85 90 95

Pro Arg Gly Ala Ser Lys Arg Gly Lys Lys Ser Thr Gly Gly Trp Gly
100 105 110

Gln Asp Val Arg Leu Ser Gly Gly His Cys Gly Ser Pro Arg Lys Lys
115 120 125

Val Thr Arg Leu Lys Arg Lys Leu Gly Ser Ser Xaa Xaa Gly Gln Cys
130 135 140

Leu Pro Gly Ser Leu Cys Ala Xaa Ser Arg Gly Ala Arg Thr Gln Phe
145 150 155 160

Ala Leu Lys Gly Ala Asp Tyr Asn Leu Ile Gly Arg Arg Phe Xaa Asn
165 170 175

Val Xaa Thr Trp Lys Asn Pro Trp Gly Tyr Pro
180 185

<210> 4264
<211> 85
<212> PRT
<213> Homo sapiens

<400> 4264
Met Ala Ser Tyr Cys Gly Trp Ile Lys Thr Lys Thr Leu Ala Trp Leu
1 5 10 15

Ile Arg Ser Ala Gly Phe Gly Ser Ala Asn Leu Ser Ser Leu Leu Ala
20 25 30

Leu Ser Ile Ser Leu Leu Phe Pro Ser Phe Val Thr Gln Val Ser Phe

35 40 45

Leu Lys Met His His Gly Leu Phe Pro Pro Pro Gly Thr Phe Phe Pro
50 55 60

Pro Phe Pro Leu Thr Cys Gln Phe Leu Leu Ser Phe Ile Ser Leu Leu
65 70 75 80

Lys Cys His Cys Phe
85

<210> 4265
<211> 19
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4265
Met Ile Arg Gln Gln Tyr Asn Xaa His Phe Met Ser Val Ala Val Ser
1 5 10 15

Thr Phe Ser

<210> 4266
<211> 33
<212> PRT
<213> Homo sapiens

<400> 4266
Met Phe Ser Leu Ser Leu Ile Leu Tyr Phe Val Ser Gln Ile Phe Pro
1 5 10 15

Gln Phe Ser Trp Leu Asn His Phe Asn Cys Lys Gly Lys Ile Tyr Ile
20 25 30

Ser

<210> 4267
<211> 91
<212> PRT
<213> Homo sapiens

<400> 4267
Met Val Gly Val Met Leu Gly Val Cys Ser Val Met Gly Leu Pro Trp
1 5 10 15

Phe Val Ala Ala Thr Val Leu Ser Ile Ser His Val Asn Ser Leu Lys
20 25 30

Val Glu Ser Glu Cys Ser Ala Pro Gly Glu Gln Pro Lys Phe Leu Gly
35 40 45

Ile Arg Glu Gln Arg Val Thr Gly Leu Met Ile Phe Ile Leu Met Gly
50 55 60

Leu Ser Val Phe Met Thr Ser Val Leu Lys Val Lys Phe Leu Tyr Cys
65 70 75 80

Arg Val Leu Gln Ser Tyr Tyr Asn Ile Tyr Thr
85 90

<210> 4268
<211> 148
<212> PRT
<213> Homo sapiens

<400> 4268
Met Ala Ser Val Val Leu Ala Leu Arg Thr Arg Thr Ala Val Thr Ser
1 5 10 15

Leu Leu Ser Pro Thr Pro Ala Thr Ala Leu Ala Val Arg Tyr Ala Ser
20 25 30

Lys Lys Ser Gly Gly Ser Ser Lys Asn Leu Gly Gly Lys Ser Ser Gly
35 40 45

Arg Arg Gln Gly Ile Lys Lys Met Glu Gly His Tyr Val His Ala Gly
50 55 60

Asn Ile Ile Ala Thr Gln Arg His Phe Arg Trp His Pro Gly Ala His
65 70 75 80

Val Gly Val Gly Lys Asn Lys Cys Leu Tyr Ala Leu Glu Glu Gly Ile
85 90 95

Val Arg Tyr Thr Lys Glu Val Tyr Val Pro His Pro Arg Asn Thr Glu
100 105 110

Ala Val Asp Leu Ile Thr Arg Leu Pro Lys Gly Ala Val Leu Tyr Lys
115 120 125

Thr Phe Val His Val Val Pro Ala Lys Pro Glu Gly Thr Phe Lys Leu
130 135 140

Val Ala Met Leu
145

<210> 4269
<211> 53
<212> PRT
<213> Homo sapiens

<400> 4269
Met Pro Ala Arg Gln Cys His Val Tyr Thr Cys Met Cys Val Cys Thr
1 5 10 15

Trp Val Cys Val Pro Val Cys Val Cys Gly Ile Leu Val Thr Phe Ala
20 25 30

Ile Phe Ser Trp Leu Glu Val Arg Gly Pro Ser His Thr Gln Arg Gln
35 40 45

Glu Leu Met Gln Val
50

<210> 4270
<211> 28
<212> PRT
<213> Homo sapiens

<400> 4270
Met Cys Leu Leu Asn Gly Cys Val Cys Lys Ile Lys Met Leu Thr Val
1 5 10 15

Ala Thr Leu Leu Leu Ser Leu Pro Leu Gly Leu Leu
20 25

<210> 4271
<211> 31
<212> PRT
<213> Homo sapiens

<400> 4271
Met Thr Ile Pro Lys Asp Ser Leu Ile Leu Phe Arg Leu Leu Ala Phe
1 5 10 15

Ile Val Tyr Val Leu Trp Phe Ser Thr Asn Ile His Tyr Pro Gln
20 25 30

<210> 4272
<211> 30
<212> PRT
<213> Homo sapiens

<400> 4272
Met Leu Cys Phe Leu Ile Trp Arg Leu Val Met Trp Val Cys Ser Thr
1 5 10 15

Cys Lys Lys Met His Arg Ala Gln Asp Lys Cys Ala Phe Pro
20 25 30

<210> 4273
<211> 32
<212> PRT
<213> Homo sapiens

<400> 4273
Met Lys Pro Arg Val Ile Ser Thr Thr Ile Phe Phe Leu Leu Leu Phe
1 5 10 15

Lys Ser Val Cys Gln Ser Phe Lys Phe Phe Leu Ser Asp Cys Cys His
20 25 30

<210> 4274
<211> 36
<212> PRT
<213> Homo sapiens

<400> 4274
Met Leu Leu Met Ala Leu Leu Val Thr Leu Leu Thr Ser Ile Gln Val
1 5 10 15

Gly Leu Pro Asp Ala Ile Leu Ser His Pro Glu Ile Thr Ala Val Tyr
20 25 30

Ile Asp Leu Val
35

<210> 4275
<211> 34
<212> PRT
<213> Homo sapiens

<400> 4275
Met Arg Glu Gly Gln Leu Lys Ala Lys Arg Lys Pro Cys Met Gly Arg
1 5 10 15

Leu Cys Phe Trp Ser Tyr Phe Phe Phe Phe Phe Phe Phe Thr Ile His
20 25 30

Gly Ile

<210> 4276
<211> 30
<212> PRT
<213> Homo sapiens

<400> 4276
Met Leu Phe Pro Leu Phe Phe Ile Leu Ser Ile Phe Ser Val His Ile
1 5 10 15

Val Asn Ser Thr Leu Glu Met Glu Lys Gln Ser Gln Arg Val
20 25 30

<210> 4277
<211> 62
<212> PRT
<213> Homo sapiens

<400> 4277
Met Leu Gln Thr His Pro Leu Leu Ser Gln Leu Pro Ala Pro Gly Pro
1 5 10 15

Arg Leu Val Val Ser Leu Ala Phe Leu Leu Tyr Cys Ile Ala Arg Tyr
20 25 30

Cys Pro Thr Cys Thr Met Leu Arg Ser Leu Ser Thr Thr Cys Asp Ser
35 40 45

Ala Thr Gly Leu Ile Arg Val Leu Arg Cys Val Leu Pro Ser
50 55 60

<210> 4278
<211> 37
<212> PRT
<213> Homo sapiens

<400> 4278
Ile Leu Gly Phe Pro Gly Cys Trp Gly Gly Ser Leu Ala Leu Pro Val
1 5 10 15

Gly Leu Arg Leu Val Gly Gly Gly Gly Gly Gly Ser Arg Cys His Gly
20 25 30

Ser Arg Arg Pro Asn
35

<210> 4279
<211> 55
<212> PRT
<213> Homo sapiens

<400> 4279
Met Cys Val Cys Val Gln Ala Cys Val His Met Cys Leu Cys Val His
1 5 10 15

Val Cys Ala Ser Val His Val Cys Glu Cys Ala Tyr Val His Cys Val
20 25 30

Arg Glu Cys Ala Cys Gly Pro Cys Thr His Leu Ser Ile His Val Ser
35 40 45

Leu His Ala His Val Ser Met
50 55

<210> 4280
<211> 27
<212> PRT
<213> Homo sapiens

<400> 4280
Met Gly Arg Cys Thr Phe Val Cys Arg Ile Glu Ile Phe Phe Ser Pro
1 5 10 15

Tyr Leu Ile Pro Pro Glu Phe Gly Asp Tyr Leu
20 25

<210> 4281
<211> 132
<212> PRT
<213> Homo sapiens

<400> 4281
Met Glu Ile Ile His Tyr Ala Ala Leu Ala Gly Ile Thr Leu Leu Thr
1 5 10 15

Leu Leu Phe Ala Ile Gly Ile Tyr Thr Val Leu Pro Pro Gly Trp Asn
20 25 30

Phe Arg Gln Lys Lys Leu Asn Ile Arg Asn Leu Leu Pro His Asn Pro
35 40 45

Pro His Ser Trp Tyr Asn Ser His His Gln Gln Ile Val Ala Pro Pro
50 55 60

Lys Cys Pro Val Phe Ala His Pro Gly Ile Ser His Ser Ser Phe Thr
65 70 75 80

Ala Ser Gln Lys Thr Phe His Gly Pro Thr Gln Asn Ile Pro Pro Ser
85 90 95

Gln His Ser Leu Ile Gly Ser Pro Ile Leu Tyr Phe Lys Gly Ile Tyr
100 105 110

Arg Asn Ser Leu Gln Met Lys Pro Asn Ser Leu Pro Leu His Leu Leu
115 120 125

Ser Val Tyr Leu
130

<210> 4282
<211> 51
<212> PRT
<213> Homo sapiens

<400> 4282
Ile Ile Ser Leu Thr Pro Leu Trp Cys Leu Pro Ser Ala Ile Ala Cys
1 5 10 15

Ser His Ile Leu Ser Phe Gly Phe Pro Pro Glu Ile Pro Asn Phe Pro
20 25 30

Thr Arg Ser Tyr Lys Ala Ile Gln Phe Ser Ser Ala Ser Ile Arg Lys
35 40 45

Leu Ser Phe
50

<210> 4283
<211> 17
<212> PRT
<213> Homo sapiens

<400> 4283
Met Leu Met Pro Trp Gly Leu Gly Leu Gly Ile Trp Leu Cys Ser Leu
1 5 10 15

Thr

<210> 4284
<211> 54
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4284
Met Cys Ala Arg Lys Cys Arg Met Leu Leu Val Leu Gln Thr Val Val
1 5 10 15

Cys Gly Thr Pro Lys Pro Leu Ser Phe His Asp Ala Phe Cys Xaa Val
20 25 30

Ile Thr Phe Pro Trp Arg Arg Xaa Gln Pro Trp Trp Arg Ala Leu Xaa
35 40 45

Trp Leu Cys Pro Ser Ala
50

<210> 4285
<211> 34
<212> PRT
<213> Homo sapiens

<400> 4285
Met Ile Val Ile Asn Lys Ile Lys Thr Ile Tyr Leu Phe Leu Val Met
1 5 10 15

Leu Gln Phe Thr Arg Lys Ile Gln Lys Ile Leu Lys Lys Lys Ile Cys
20 25 30

Trp Asn

<210> 4286
<211> 34
<212> PRT
<213> Homo sapiens

<400> 4286
Met Leu Met Asn Gln Val Leu Thr Ala Pro Ile Gly Leu Val Leu Leu
1 5 10 15

Leu Leu Phe Ala Leu Leu Thr Phe Pro Pro Ser Ser Ser Ile Arg Glu
20 25 30

Arg Asn

<210> 4287
<211> 27
<212> PRT
<213> Homo sapiens

<400> 4287
Met Thr Ser Tyr Cys Pro Ala Gly Ser Val Pro Arg Leu Ser Leu Pro
1 5 10 15

Ser Thr Val Arg Pro Leu Leu Gly Trp Leu Tyr
20 25

<210> 4288
<211> 41
<212> PRT
<213> Homo sapiens

<400> 4288
Met His Trp Gln Ile Gln Leu Ile Asn Trp Ser Ser Phe Leu Ser Leu
1 5 10 15

Phe Ser Phe Leu Gln Ile Ser Ala Gln Ser Pro Lys Tyr Cys Leu Ser
20 25 30

Gly Pro Ile Met Cys Pro Cys Ile Leu
35 40

<210> 4289
<211> 1
<212> PRT
<213> Homo sapiens

<400> 4289
Met
1

<210> 4290
<211> 7
<212> PRT
<213> Homo sapiens

<400> 4290
Met Pro Leu Ala Ser Ala Phe
1 5

<210> 4291
<211> 37
<212> PRT
<213> Homo sapiens

<400> 4291
Met Leu Phe Gly Ser Leu Cys Asp Leu His Ser Ala Phe Phe Leu Ile
1 5 10 15

Ser Ser Thr Ala Cys Pro Thr Leu Ser Phe Leu His Ser Thr Pro Asp
20 25 30

Val Phe Gln Asn Leu
35

<210> 4292
<211> 5
<212> PRT
<213> Homo sapiens

<400> 4292
Trp Leu Leu Lys Thr
1 5

<210> 4293
<211> 12
<212> PRT
<213> Homo sapiens

<400> 4293
Met Ile Leu Phe Thr Met Phe Ile Leu Ala Gly Trp
1 5 10

<210> 4294
<211> 30
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4294
Met Xaa His Gly Leu Leu Leu Ile Ser Leu Gln Leu Leu Gly Pro Ile
1 5 10 15

Ile Thr Tyr Thr Thr Ile Ser Asp Pro Thr Thr Phe Leu Leu
20 25 30

<210> 4295
<211> 36
<212> PRT
<213> Homo sapiens

<400> 4295
Leu Pro Ser Leu Leu Leu Phe Leu Asn Pro Phe Ile Phe Thr Ile Leu
1 5 10 15

Leu Leu Phe Pro Cys Gly Gly Phe Asn Thr Ser Ile Phe Phe Leu Asn
20 25 30

Gln Leu Asp Ser
35

<210> 4296
<211> 4
<212> PRT
<213> Homo sapiens

<400> 4296
Met Leu Pro Leu
1

<210> 4297
<211> 37
<212> PRT
<213> Homo sapiens

<400> 4297
Met Gly Leu Leu Val Pro Leu Thr Leu Leu Leu Gln Leu Ser Ala Gly
1 5 10 15

Glu Leu Ser Val Val Leu Gln Asp Ser Thr Asp Cys Met Ser Glu Leu
20 25 30

Gly Leu Ala Trp Leu
35

<210> 4298
<211> 44
<212> PRT
<213> Homo sapiens

<400> 4298
Thr Leu Leu Gly Pro Leu Glu Met Phe Gly Arg Val Trp Arg Arg Gly
1 5 10 15

Thr Lys Val Cys Thr Thr Arg Cys Leu Gln Ser Asp Trp Val Ser Pro
20 25 30

Ser Phe Lys Glu Ala Ile Ser Val Tyr Pro Gln Asn
35 40

<210> 4299
<211> 152
<212> PRT
<213> Homo sapiens

<400> 4299
Ile Ser Glu His Gly Leu Lys Pro Thr Thr Lys Ala Val Pro Ala Ser
1 5 10 15

Asp Ser Ser Pro Ser Lys Pro Ser Ser Ser Ser Phe Leu Ile Pro Ser
20 25 30

Phe Ser Ser Leu Ala Leu Val Glu His Phe Ala Gln His Gly Ala Trp
35 40 45

Leu Ile Ile Lys Leu Pro Glu Arg Thr His Ile Ile Ile Thr Ser Ser
50 55 60

Met Lys Ala Ser Thr Thr Ser Gln Ala Lys Leu Leu Cys Val Ser Thr
65 70 75 80

Gln Cys Ser His Ile Leu Phe Cys Leu Trp Leu Ala Pro Phe Lys Glu
85 90 95

Asn Leu Phe Thr Tyr Pro Ser Ser Thr Thr Leu His Ser Gln His Thr
100 105 110

Asn Thr Val Ser His Gln Gln Pro Ser Leu Ser Leu Cys Leu His Ala
115 120 125

Val Glu Ser Lys Lys Glu Leu Val Gly Leu Ile His Leu Ser Pro Arg
130 135 140

Ala His Lys Gly Ala Thr Glu Asn
145 150

<210> 4300
<211> 2
<212> PRT
<213> Homo sapiens

<400> 4300
Phe Thr
1

<210> 4301
<211> 47
<212> PRT
<213> Homo sapiens

<400> 4301
Met Pro Gly Leu Ala Val Thr Ser Pro Thr Trp Val Val Arg Phe Thr
1 5 10 15

Asn Asn Pro Val Thr Ala Ala Ser Arg Met Asp His Ala Ala Trp Leu
20 25 30

Val Leu Ile Ser Gly Ser Ser Leu Glu Leu Arg Leu Arg Ser Ala
35 40 45

<210> 4302
<211> 75
<212> PRT
<213> Homo sapiens

<400> 4302
Met Ser Leu Arg Pro Val Thr Gln Thr Thr Phe Gly Asp Cys Gly Ser
1 5 10 15

Val Ser Ser His Arg Gly Lys Lys Pro Met Asn Lys Gln Ala Gln Pro
20 25 30

Leu Pro Pro Arg Ser Asp Asp Phe Met Pro Gln Thr Ala Asn Pro His
35 40 45

Leu Pro Thr Asp Ala Ser Val Thr Ala Gly Glu Lys Pro Arg Asn Arg
50 55 60

Gly Pro Asp Val Glu Thr Glu Pro Phe Arg Ala
65 70 75

<210> 4303
<211> 22
<212> PRT
<213> Homo sapiens

<400> 4303
Gly Ile Thr Phe Phe Phe Ile Tyr Phe Gly Phe Cys Phe Ser His Glu
1 5 10 15

Gly Leu Phe Ser Asn Ile
20

<210> 4304
<211> 50
<212> PRT
<213> Homo sapiens

<400> 4304
Leu Leu Val Asp Phe Asp Ser Asp Lys Arg Thr Gln Pro Ile Trp Val

```
  1               5                  10                  15

Phe Phe Ala Leu Ile Val Trp Gly Phe Glu Val Leu Ala Arg Ser Trp
             20                  25                  30

Arg Gly Val Cys Val Gln Val Cys Glu Cys Met Cys Asn Val Cys Val
         35                  40                  45

Gln Val
     50
```

<210> 4305
<211> 30
<212> PRT
<213> Homo sapiens

<400> 4305
```
Met Ile Ser Asp Pro Leu Leu Leu Pro Leu Thr Phe Phe Leu Phe Ile
  1               5                  10                  15

Ser Leu Ser Ile Asn Phe Pro Val Val Glu Ala Gln Arg Trp
             20                  25                  30
```

<210> 4306
<211> 12
<212> PRT
<213> Homo sapiens

<400> 4306
```
Met Pro Phe Thr Phe Phe Leu Phe Val Asn Leu Leu
  1               5                  10
```

<210> 4307
<211> 39
<212> PRT
<213> Homo sapiens

<400> 4307
```
Met Ser Glu Ala Gly Trp Trp Ala Trp Leu Phe Val Ile Leu His Pro
  1               5                  10                  15

Phe Gly Met Pro Asp Thr Phe His Asn Asn Phe Lys Lys Asp Lys Thr
             20                  25                  30

Thr Ala Glu Lys Cys Ile Glu
         35
```

<210> 4308
<211> 38
<212> PRT
<213> Homo sapiens

<400> 4308

Met Phe Ile Ala Leu Cys Ser Lys Val Cys Val Cys Val Asn Ala Tyr
1 5 10 15

Val Cys Val His Thr Tyr Val Val Phe Met Pro Gly Met Tyr Thr Ile
20 25 30

Trp Val His Ile Cys Asn
35

<210> 4309
<211> 31
<212> PRT
<213> Homo sapiens

<400> 4309
Met Arg Ser Leu Gly Leu Arg Cys Ala Phe Tyr Leu Leu Cys Leu Leu
1 5 10 15

Asn Pro Ser Ala Leu Pro Asp Pro Ala Gly Arg Ser Pro Pro Leu
20 25 30

<210> 4310
<211> 30
<212> PRT
<213> Homo sapiens

<400> 4310
Met Leu Ala Gly Tyr Phe Ala Asp Leu Phe Met Trp Leu Pro His Ser
1 5 10 15

Val Thr Cys Leu Cys Thr Ser Val Cys Phe Cys Cys Gly Trp
20 25 30

<210> 4311
<211> 14
<212> PRT
<213> Homo sapiens

<400> 4311
Met Val Ile Arg Leu Ser Asn Trp Ala Pro Thr Cys Val Ser
1 5 10

<210> 4312
<211> 104
<212> PRT
<213> Homo sapiens

<400> 4312
Met Ala Pro Leu Pro Ser Ser Leu Leu Leu Leu Leu Thr Ile Tyr His
1 5 10 15

Gly Ser Ser His Leu Pro Ser Thr Met Ile Val Ser Phe Leu Arg Pro
20 25 30

```
His Gln Glu Gln Val Pro Ala Pro Cys Phe Leu His Ser Cys Ser Leu
         35                  40                  45

Leu Phe Phe Arg Met Ala Thr Ala Asn Ile Val Gln Met Ser Lys Leu
     50                  55                  60

Pro Thr Pro Leu Cys Ala Pro Pro Thr Leu Asn Leu Leu Thr Leu Cys
 65                  70                  75                  80

Ser Arg Cys Lys Leu Thr Cys Pro Phe Cys His Arg Gly Cys Leu Ser
                 85                  90                  95

Pro Pro Ser Ala Val Thr Leu Leu
            100
```

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<210> 4313
<211> 9
<212> PRT
<213> Homo sapiens

<400> 4313
Gln Ala Gln Leu Ile Phe Ser Trp Gly
  1   5

<210> 4314
<211> 30
<212> PRT
<213> Homo sapiens

<400> 4314
Met Gly Val Leu Ala Val Leu Leu Pro Val Thr Gly Thr Trp Ala Trp
  1   5   10   15

Val Arg Gly Gly His Val Ala Pro Asp Thr Ala Leu Arg Ile
             20   25   30

<210> 4315
<211> 59
<212> PRT
<213> Homo sapiens

<400> 4315
Met Lys Val Lys Leu Pro Phe Val Ser Val Ser Leu Cys Val Cys Asp
  1   5   10   15

Cys Val Arg Gly Ser Thr Leu Thr Trp Asn Arg Leu Leu Arg Val Gly
             20   25   30

Glu Gly Ser Gly Arg Tyr Ser Tyr Leu Tyr Arg Arg Lys Ala Gly Trp
         35   40   45

Gly Cys Gly His Thr Pro Ile Glu Lys Val Val
     50   55

<210> 4316
<211> 32
<212> PRT
<213> Homo sapiens

<400> 4316
Met Gly Ala Gly Ala Phe Gly Tyr Leu Ala Leu Pro Cys Leu Val Cys
1 5 10 15

Leu Thr Tyr Leu Leu Pro Thr Leu Ser Arg Asn His Ser Gln Met Gly
20 25 30

<210> 4317
<211> 34
<212> PRT
<213> Homo sapiens

<400> 4317
Met Ala Leu Glu Ala Gly Ala Leu Tyr Ile Gly Trp Ile Leu Gly Gln
1 5 10 15

Ala Phe Phe Phe Phe Phe Phe Ser Glu Val Ser Leu Pro Lys Cys Gly
20 25 30

Lys Val

<210> 4318
<211> 15
<212> PRT
<213> Homo sapiens

<400> 4318
Met His Arg Ser Leu Ser Pro Cys Lys Ile Trp Leu Leu Phe Phe
1 5 10 15

<210> 4319
<211> 33
<212> PRT
<213> Homo sapiens

<400> 4319
Met Ser Leu Pro His Leu Leu Phe Ser Ala Phe Met Ser Gln Ala Ala
1 5 10 15

Trp Gly Leu Leu Phe Leu Gly Leu Leu His Ser Thr Asn Leu Arg Trp
20 25 30

Ala

<210> 4320
<211> 50
<212> PRT
<213> Homo sapiens

<400> 4320
Met Trp Ser Leu Leu His Phe Cys Leu Leu Leu Ala Ser Phe Leu Ser
1 5 10 15

Cys Phe Glu Leu Leu Ala Ser Val Cys Ser Leu Gly Arg Arg Phe Glu
20 25 30

Glu Tyr Ser Trp Phe Phe Pro Gly Ser Arg Gly Ser Gly Cys Ala Gly
35 40 45

Val Ser
50

<210> 4321
<211> 22
<212> PRT
<213> Homo sapiens

<400> 4321
Met Ala Ser Leu Leu Met Phe Leu Val Pro Leu Asn Arg Ile Gly Arg
1 5 10 15

Ile Pro His Leu Cys Arg
20

<210> 4322
<211> 1
<212> PRT
<213> Homo sapiens

<400> 4322
Met
1

<210> 4323
<211> 16
<212> PRT
<213> Homo sapiens

<400> 4323
Ser Trp Cys Asp Gly Gly Cys Trp Cys Arg Leu Met Tyr Ser Phe Val
1 5 10 15

<210> 4324
<211> 20
<212> PRT
<213> Homo sapiens

<400> 4324
Met Gly Ser Leu Leu Val Phe Pro Arg Ser Ser Tyr Ala Leu Leu His
1 5 10 15

Leu Ile Gly Val
20

<210> 4325
<211> 34
<212> PRT
<213> Homo sapiens

<400> 4325
Met Ile Met Pro Leu Cys Val Val Cys Ile Val Leu Asn Pro Val Leu
1 5 10 15

Cys Ile Glu Glu Ile Leu Gln Ser Ile Val Leu His Lys Tyr Trp Gly
20 25 30

Leu Ala

<210> 4326
<211> 50
<212> PRT
<213> Homo sapiens

<400> 4326
Met Val Thr Ala Val Cys Gln Pro Val Leu Thr Ala Pro Val Phe Ala
1 5 10 15

Leu Leu Leu Pro Ala Val Ala Arg Ser Pro Ser Val Gly Ala Ala Leu
20 25 30

Glu Pro Gly Lys Arg Asn Arg Arg Val Lys Arg Gly Cys Gly Val Pro
35 40 45

Phe Met
50

<210> 4327
<211> 34
<212> PRT
<213> Homo sapiens

<400> 4327
Met Asp Ser Thr Ser Asp Thr Pro Phe Pro Arg Trp Ser Leu Arg Leu
1 5 10 15

```
Arg Ser Leu Val Leu Val Leu Ile Gln Gly Leu Ser Pro Val Leu Ser
             20                  25                  30

Arg Val
```

<210> 4328
<211> 39
<212> PRT
<213> Homo sapiens

<400> 4328

```
Met Phe Ile Leu Leu Ile Met Tyr Leu Ile Trp Glu Gly Lys Ala Val
  1               5                  10                  15

Ser Cys Tyr Leu Leu Pro Pro Ile Lys Ala Ser Val Ala Thr Val Leu
             20                  25                  30

Thr Phe Asn Pro Trp Lys Phe
         35
```

<210> 4329
<211> 181
<212> PRT
<213> Homo sapiens

<400> 4329

```
Met Asn Arg Arg Val Cys Val Leu Met Leu Leu Val Ala Trp Ile Gly
  1               5                  10                  15

Gly Phe Leu His Ser Leu Val Gln Phe Leu Phe Ile Tyr Gln Leu Pro
             20                  25                  30

Phe Cys Gly Pro Asn Val Ile Asp Asn Phe Leu Cys Asp Leu Tyr Pro
         35                  40                  45

Leu Leu Lys Leu Ala Cys Thr Asn Thr Tyr Val Thr Gly Leu Ser Met
     50                  55                  60

Ile Ala Asn Gly Gly Ala Ile Cys Thr Val Thr Phe Phe Pro Leu Leu
 65                  70                  75                  80

Leu Ser Tyr Gly Val Ile Leu Pro Ser Leu Lys Thr Gln Ser Leu Glu
                 85                  90                  95

Gly Lys Cys Lys Ala Phe Tyr Thr Cys Ala Ser His Ile Thr Val Ile
            100                 105                 110

Thr Leu Phe Phe Val Pro Cys Ile Phe Leu Phe Ala Arg Pro Asn Ser
        115                 120                 125

Thr Phe Pro Ile Asp Lys Ser Met Thr Val Val Leu Thr Cys Ile Thr
    130                 135                 140

Pro Met Leu Lys Pro Leu Ile Tyr Ala Leu Arg Asn Ala Glu Met Lys
145                 150                 155                 160
```

Ser Ala Met Arg Lys Leu Trp Ser Glu Lys Val Ser Leu Ala Gly Lys
165 170 175

Gly Leu Tyr Pro Ser
180

<210> 4330
<211> 31
<212> PRT
<213> Homo sapiens

<400> 4330
Met Gly Trp Gly Leu Leu Cys Thr Phe Leu Tyr Leu Ala Pro Gln Lys
1 5 10 15

Thr Glu Gly Ala Ala Ala Asp Leu Ala Ser Thr Ser Pro Ala Pro
20 25 30

<210> 4331
<211> 30
<212> PRT
<213> Homo sapiens

<400> 4331
Met Leu Asn Leu Cys Ile Thr Leu Leu Phe Leu Ser Val Thr Leu Thr
1 5 10 15

Asn Ile His Ser Asn His Ser Ser Tyr Ser Asn Tyr Leu Leu
20 25 30

<210> 4332
<211> 39
<212> PRT
<213> Homo sapiens

<400> 4332
Met His Pro Leu Leu Phe Tyr Leu Val Lys Leu Phe Leu Glu Ala Arg
1 5 10 15

Asp Thr Thr Cys Ile Ile Met Ser Cys Pro Thr Pro Gly Ile Gln Glu
20 25 30

Ala Leu Lys Ile Thr Cys Ser
35

<210> 4333
<211> 26
<212> PRT
<213> Homo sapiens

<400> 4333
Met Ala Thr Met Phe Thr Lys Ile Thr Thr Ser Ile Val Phe Gly Leu
1 5 10 15

Ser Leu Ala Leu Pro Ile Ser Thr Arg Ala
20 25

<210> 4334
<211> 78
<212> PRT
<213> Homo sapiens

<400> 4334
Met Asp Ser Asp Phe Pro Thr Thr Lys Ile Met Met Leu Leu Ala Ser
1 5 10 15

Ile Pro Ala Leu Leu Gln Gly Val Val Asn Ile Leu Tyr Arg His Arg
20 25 30

Leu Gly Leu Ser Asn Phe Leu Pro Gln Cys Ser Leu Asn Ser Leu Lys
35 40 45

Gly Ser Asn Val Gly Pro Asn Leu His Thr Glu Lys Leu Arg Gln Lys
50 55 60

Lys Ser Lys Gln Phe Val Pro Cys His Gln Ile Thr Tyr Lys
65 70 75

<210> 4335
<211> 6
<212> PRT
<213> Homo sapiens

<400> 4335
Met Phe Ile Phe Phe Phe
1 5

<210> 4336
<211> 39
<212> PRT
<213> Homo sapiens

<400> 4336
Met Lys Ser Leu Leu Leu Ala Ile Ala Phe Gln Lys Leu Leu Gly Ser
1 5 10 15

Pro His Pro Ile Leu Gln Pro His Leu Phe Ala Ser Leu His Pro Ser
20 25 30

Pro Leu Ile Val Gln Gly Ser
35

<210> 4337
<211> 32
<212> PRT
<213> Homo sapiens